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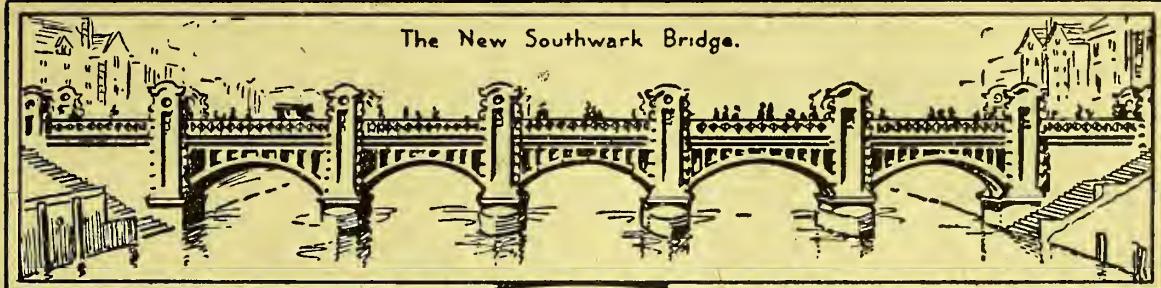
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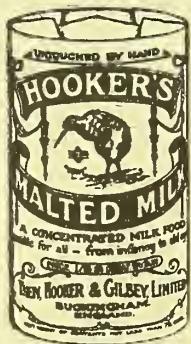
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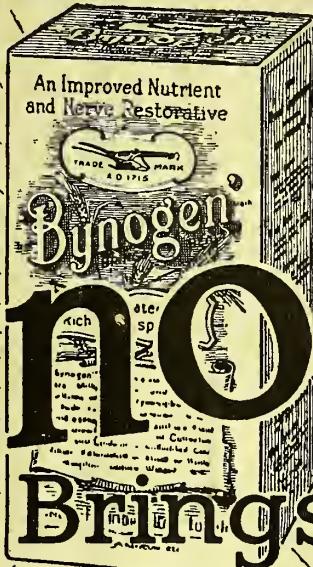
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"Bynogen" possesses a most attractive flavour and thereby overcomes the objection hitherto experienced in other somewhat similar products.

"Bynogen" strengthens digestion, improves nutrition, and does not cause constipation.

"Bynogen" is delicious when sprinkled on puddings, toast, etc. It mixes readily with milk and other fluids, or it may be eaten plain if desired.

Profit on "Bynogen."

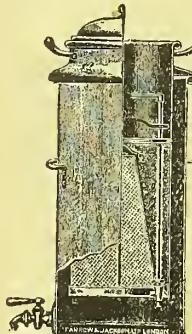
"Bynogen" yields a profit on return of 25% monthly a/c terms. When "Bynogen" forms part of a £5 carriage paid general order for the "Allenburys" Specialities the profit on "Bynogen" is increased to 27½%.

SAMPLES AND DESCRIPTIVE
LEAFLETS FREE ON REQUEST

Lombard St., E.C. 3.

“FARJAK” ASBESTOS FILTERING MEDIUMS.

For the clarification of
PHARMACEUTICAL PREPARATIONS.



The above used with the

“TOWER” ASBESTOS FILTERS

give the best possible results.

PARTICULARS
ON APPLICATION

Filling, Corking, Capsuling Machines, &c.

ESTABLISHED 1798

FARROW & JACKSON

LIMITED,

16 GREAT TOWER STREET, LONDON, E.C. 3.

Recommend it for Convalescence



Doctors prescribe
Turtle Soup in all
cases where the
patient cannot
retain any other
nutriment.

FREEMANS

REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

The Watford Mfg. Co. Ltd.
Defectaland, WATFORD

Freemans
FOOD PRODUCTS
Watford
S.A.A.

“Prana” Sparklets.

NOTICE TO THE TRADE.

MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the “Prana” Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards “D” Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,

“Prana” Sparklet Works,
Upper Edmonton, N.

LIQUID GLUCOSE

SO₂ Free.

NO BLUEING USED.

Specially pure for
Pharmaceutical Preparations.

THE
MANBRÉ SACCHARINE
Co., Ltd.,

HAMMERSMITH, LONDON, W. 6.

TELEPHONE:
CITY 7
PRIVATE
BRANCH
EXCHANGE

TELEGRAMS:
ELEVEN
CENT
LONDON



S. MAW SON & SONS LTD.
7/12 ALDERSGATE STREET
LONDON
ENGLAND

CABLES:
ELEVEN
LONDON

CODE:
A : B : C
4TH & 5TH
EDITION



Maw's Page.

NUMBER 317.

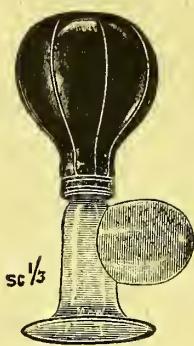
NOVEMBER 10, 1917.



THE "PAREX" QUALITY.
Red velvet bulb. Each in
box complete.
2 oz., 29/- doz.
USUAL DISCOUNT.

MAW'S FAMOUS BREAST RELIEVERS.

Some extra good value
lines—suitable for all
classes of customers.



B229/B
THE POPULAR LINE.
Black bulb. Each in
box complete.
2 oz. 4 oz.
24/- doz. 34/6 doz.
USUAL DISCOUNT.

SYNTHETIC OTTO OF ROSE

A Triumph in Perfumery
—the nearest approach
to the Genuine Otto—
the true fragrance and
lasting quality.



ACTUAL SIZE.

CLOSE AT 1 p.m. SATURDAYS.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

"VASELINE" AND RELIABILITY

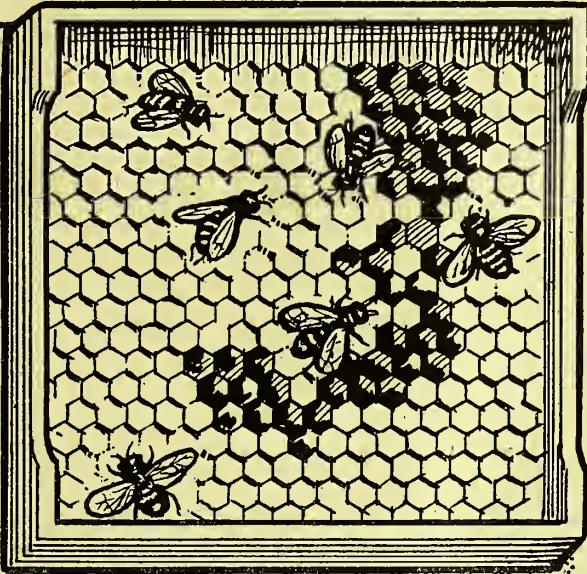
"VASELINE" when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and, where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds, which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

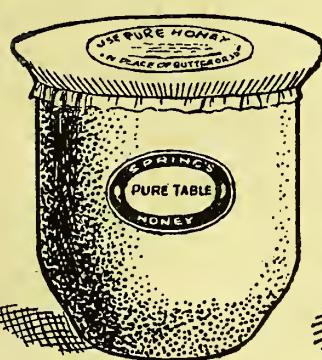
**CHESEBROUGH MANUFACTURING
COMPANY (Consolidated)**
42 Holborn Viaduct, London, E.C.

Complete Price List of all the "Vaseline" Preparations will be sent post free on application

Spring's Pure Honey



**DIRECT FROM THE COMB
TO THE TABLE**



Packed by
SPRING & CO. LTD.
BRIGG, LINCS

THE LARGEST PACKERS OF HONEY IN GREAT BRITAIN.
Contractors to His Majesty's Government. - - -

WE SPECIALISE

in packed Honey for table use.

All varieties, i.e.
"White Clover,"
"Heather," &c.

In screw glasses and old-fashioned crocks.
Smart.

All packed and sold under one guarantee of absolute purity and choice quality.

Spring's Honey is widely known and appreciated, commanding a sale wherever exhibited.

The Public wants Honey. Stocks are limited. Prices will be higher.

Write for terms, please.

SAM^L. LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for :

Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—Fratelli de Pasquale & Co., Messina.
Bay Rum and Bay Oil.—Bornn, St. Thomas.
Essential Oils, Drugs, Chemicals, &c.—National Aniline & Chemical Co., New York.

Two of the World's Face Powders.

POPULAR
EVERWHERE.

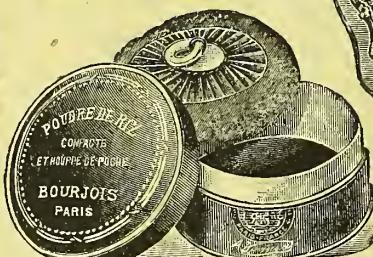
BOURJOIS'

Eyebrow Pencils,
Rouges, Perfumes,
Soaps, etc.,

always command a ready sale.



Bourjois' Java Powder.
Price 9/5 doz.; 12 doz. 8/10. P.A.T.A. 1/- per box.



Bourjois' Poudre Manon Lescaut.
Price 25/1 per doz. P.A.T.A. 2/9 per box.

SOLID FACE POWDER (Poudre Compacte)

BOURJOIS of PARIS is the POWDER HOUSE.

Our Solid Powder, with Puff, No. 65, IS THE BEST.

Made in Seven Tints. Rose, Naturelle, Rachel, Blanche, Rosette Brun, Ocree, and Mauve. 7/7 per doz.
DO NOT BE MISLED BY BUYING CHEAP AND WORTHLESS IMITATIONS OF THIS ARTICLE.

HENRY C. QUELCH & CO., 4 & 5 Ludgate Square, LONDON, E.C. 4.

FINEST OIL SOAP

(Tivoliier de Gourjon, Marseilles).

PURE SAFFRON

(A. Jaurand, Orleans).

PURE RICE STARCH POWDER.
CONFECTIONERS' COLOURS.
ANILINE DYES for all purposes.

For particulars and samples, apply to

PRONK, DAVIS & RUSBY, LTD.
 13 Haydon Street, LONDON, E. 1.

F. M. RUDD,**Bronson,****MICHIGAN,****U.S.A.****GENUINE AMERICAN
PEPPERMINT OIL**

"Columbia" Natural
 "Diamond White"
 Re-distilled.

Finest qualities for Druggists,
 Distillers and Confectioners.

Sols Consignees in United Kingdom—
 R. W. GREEFF & CO.
 Thames House,
 Queen St. Place, LONDON, E.C.

6½%
 profit
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TOZANA

HAIR FOOD

ADVERTISING CAMPAIGN

will help you to obtain this
 Handsome Return without
 effort on your part

TOZANA is the newest preparation
 in HAIR TONIC for Ladies, and
 TONIC FIXING CREAM for
 gentlemen.

Both strengths, Ladies' and Gentle-
 men's, are free from oil or grease.

Protected Retail, 1/- 2/- 3/6 & 5/-

Write to your Wholesaler for
 Prices and **BONUS OFFER.**

Or direct to

TOZANA Perfumery Co., Ltd.
 257 Gray's Inn Rd., London, W.C.1.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest litho-graphic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in. and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17)
 can be had by any chemist who will give it a good place
 in his pharmacy.

M. BEETHAM & SON, CHELTENHAM.

FIELD'S "SIANARA" (Regd.) Toilet Soap

With the Enchanting Perfume of OLD JAPAN.

A SUCCESSFUL NEW LINE,

SUPPLIED IN

STANDARD 3d. SIZE & SHAPE

ALSO

3d., 4d., 5d. & 6d. ROUND BATH

Let us quote you for your Proprietary Soaps.

J. C. & J. FIELD, Ltd., Toilet Soap Experts. **LONDON, S.E.1.**

Telegrams: "OZOKERIT, PHONE, LONDON."

ESTABLISHED 1642.

Telephone: HOP 3905.

Spirit

Non-Alcoholic



P. 121.
PEDESTAL CASE.
16/6 per doz.

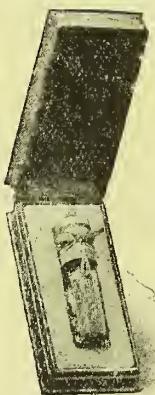
The very highest
everlasting

LILY OF THE
VALLEY

PARMA VIOLETS

SWEET PEA

TRÈFLE



P. 122.—VELVET-LINED
JEWEL CASE.
20/6 per doz.

Shortage

Perfumes.

grade of refined and
odours.

NIGHT-SCENTED
STOCK

CARNATION

WALLFLOWER

WHITE ROSE



P. 123.
LIGHTHOUSE
CASE.
22/6 per doz.

**The EMPIRE PERFUMERY CO. (Cuxson, Gerrard &
Co. Ltd., Proprietors) OLDBURY**

**LABORATORY
OF GENERAL PHARMACOLOGY,**

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**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
THE NERVOUS SYSTEM.

Sold by all Chemists.
Wholesale: 8, Rue Vivienne.
PARIS.

MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

A harmless antiseptic
preventative against CHOLERA
FERMENTATION - INDIGESTION
& other intestinal disturbances.

SOLD BY ALL CHEMISTS



I find the odour exquisite and
will be charmed to have scented
by my perfume. Very sincerely
Mary Garden

**PARFUM
MARY GARDEN**

RIGAUD

PARFUMEUR

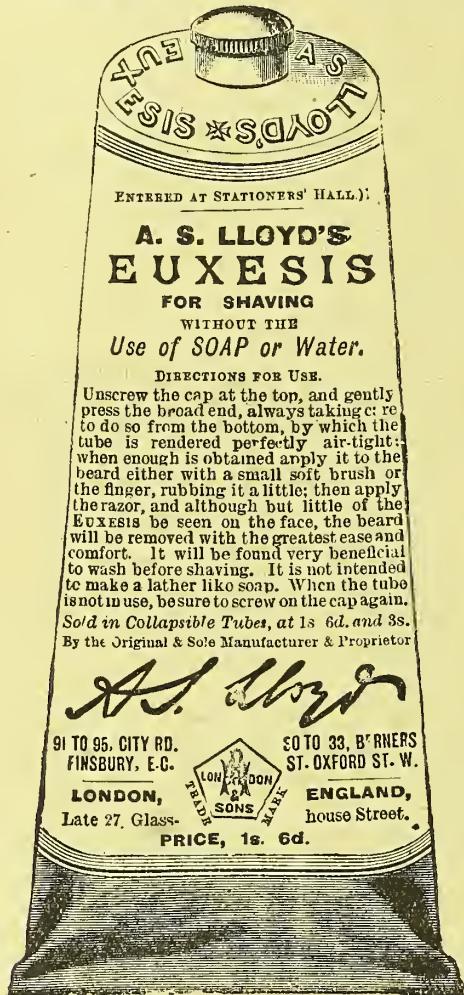
16 RUE DE LA PAIX
PARIS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices :

10/- per dozen; 9/9 by the 6 dozen.
Retails at 1/6 the Tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.,
LONDON : 29-33 Berners Street, W. ; and 89-95 City Road, E.C.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)

for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.
1/-	1/-	7/6
1/6	1/6	9/-
2/6	2/3	15/-
3/6	3/3	21/-

per doz.
less 5%
discount

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E. 1.

For
FOUNTAIN
PENS
and all Pens
the Best.

Dichroic Ink

Makes
Writing
Easy

Proprietors:

Bewley & Draper, Ltd., Dublin.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

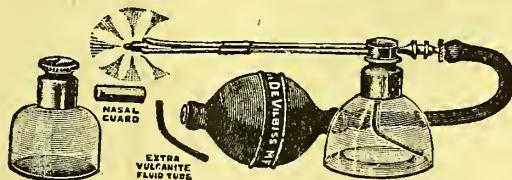
The Labels on GENUINE EUXESIS bear two signatures—
A. S. Lloyd in Black Ink, and that of his Widow,
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and
Proprietors } AIMÉE LLOYD & CO.**
23 PANTON STREET (formerly named Spur Street),
HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

ATOMERS & SPRAYS

For Oil or Water. Fully Guaranteed.



DEVILBISS MANUFACTURING CO.

71 Newman St., LONDON, W. 1.

ARRANGEMENTS NOW MADE FOR COMPLETE SUPPLIES.

YES!

THE SALES OF
AMAMI
 CREAM AND SHAMPOO
 ARE INCREASING BY JUMPS.

If your Wholesaler cannot supply, write direct for £5 Parcel and Special Discount of 10/- Window Display Allowance.

PRICHARD & CONSTANCE (Wholesale) Ltd.
 469 Holloway Road, LONDON, N. 7.

Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

INGRAM'S OFFER.

		Retails for 2/- each	(2.00)	8/-
½ Doz. Milkweed Cream	... " "	"	(2.00)	8/-
½ Doz. Velveola Souveraine (Face Powder)	... " "	2/-	(2.00)	8/-
½ Doz. Zodenta Paste	... " "	1/-	(1.00)	4/-
½ Doz. Rouge...	... " "	2/-	(1.00)	4/-
½ Doz. Perfume, 1 oz. ass't. in fancy packages	.. 4/-	"	(4.00)	16/-
			10,00	£2

Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

If more convenient to you, specify shipments from our Canadian Branch.

FREDERICK F. INGRAM CO.

(ESTABLISHED 1885)

411 Lafayette Blvd. W., DETROIT, U.S.A.

CANADIAN BRANCH : WINDSOR, ONT.



Twenty-five years continuous advertising has made this trademark known wherever American and Canadian publications are read.

Send for List of Winter
Lines you will want —
viz.,

**LANOLINES,
COLD CREAMS,
CHILBLAIN
OINTMENT,
TOOTH PASTES,
&c.**



SNOWLEEN

Will you push a line which sells on
merit?

SNOWLEEN is one of the few Face Creams which *genuinely* does what it claims to do. It contains 50 per cent. Witch Hazel Extract, the finest skin healer in the world.

Sold in 1/- Pots and 6d. Tubes.

This Bonus Order shows you nearly 100 per cent. Profit.

2 dozen 1/- Pots at 7/9 ... 3 dozen 6d. Tubes at 3/9
Receives 1 dozen 6d. Tubes free.

Send us a card, ordering this as Bonus No. 9.

WHITE BAND MANUFACTURING CO., LTD.,
PROGRESS WORKS, SOUTH CROYDON.

"LESCOL" FLORAL PERFUMES

NOTICE !

We strongly advise Chemists before purchasing their Christmas lines to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.

We are holding a large stock at remunerative prices

LESCOL PERFUMERY CO.,

Lomond Grove, Camberwell Green,
LONDON, S.E. 5.

Telephone: 810 HOP.

(Proprietors: The London Essence Co.)

Telegrams: "VANILLIN, CAMBER, LONDON."

METHYLATED SPIRIT OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, LTD., BIRMINGHAM

PETROLEUM JELLY

Finest qualities, Red, Yellow, and White. Guaranteed B.P.

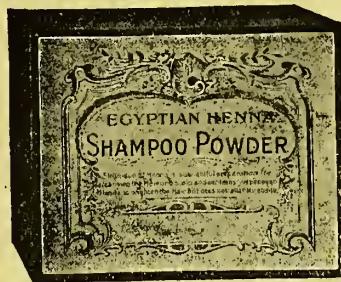
**GUMS. WAXES. DEXTRINE.
CRUDE DRUGS.**

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

TOOGOOD'S SHAMPOO POWDERS



EGYPTIAN HENNA SHAMPOO POWDER.

In boxes containing 7 Powders.
Superior Quality and Delicately
Perfumed,
10/6 per dozen boxes.



PINE, 7/6 doz.

PINE & HENNA,
8/9 doz.



PINE.

In Envelopes, 7 in box,
7/6 per dozen boxes.

PINE & HENNA.

In Envelopes, 7 in box,
8/9 per dozen boxes.

Customer's name free on 3 dozen boxes or bottles.

MANUFACTURED ONLY BY—

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E. 1.

BRITISH NOW



Send for
Price List and
Trading Terms.

ODOL
Chemical Works.
BERKHAMSTED.

C.V. & S.—3.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable
P.A.T.A. Protected Lines, bearing a large Protected
Retail Profit, which sell freely and are well known
and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
" " " "	1/2	10/-
" " " bottles in cartons } 1/6		12/-

■ *Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line. ■

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, } **13/6** per dozen boxes net.
especially suitable for use in Ecema.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

Prompt delivery
from stock

Liquid Paraffin

B.P.

Without
Certificate

STERNS LTD.,

Royal London House,
FINSBURY SQ., LONDON, E.C. 2.

**CAPPING SKINS
WHITE SPLITS
BAUDRUCHE
GLASS BOTTLES** of all descriptions

*Arthur Toombs & Co.
110 CANNON STREET, LONDON, E.C. 4.*

Telephone No.
CENTRAL 13374

Telegraphic Address—
"DEFLECTION, CANNON, LONDON."

GUARANTEED SACCHARINE TABLETS

The difficulty of making minute chemical analysis of SACCHARINE Tablets has paved the way for unreliable products, which are being offered freely. To safeguard the trade we sell on the following conditions :

We will pay the cost of analysis wherever it is shown by recognised analysts that our tablets are not as guaranteed.

OUR GUARANTEE.

We guarantee that every $\frac{1}{2}$ -grain tablet contains not less than $\frac{1}{2}$ grain SACCHARINE, testing over 330, and the excipient contains only traces of Soda Bicarb., just sufficient to quicken solubility.

We further guarantee our tablets to be as sweet as the pre-war standard.

All tablets sold under this guarantee or returnable.

Bottles of 100 ($\frac{1}{2}$ -gr.) tablets	... 22/-	per dozen
" 200 "	... 43/-	"
" 500 "	... 105/-	"
" 1,000 "	... 205/-	"

Post-paid. Special quotations for quantities. Samples upon request.

**The KEENE CO.,
50 Gray's Inn Rd., London, W.C.1**

Contractors to His Majesty's War, India and Munition Departments.
Contractors to the Allied Governments' Military Hospitals. Members
of American Chamber of Commerce in London.

WET

DRY

ONE GOOD TURN
DESERVES ANOTHER,
if you just slip on a wet

SEMREH
BOTTLE CAP

over the stopper of
a bottle, in a few
hours it will turn
into an elegant cap-
ping—SELF-FIXED.

Details from
THE VISCOSÉ
Development Co., Limited,
BROMLEY, KENT

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,
nausea, vertigo or syncope. :: :: Literature on demand.

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly
in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRERES
— 92, RUE VIEILLE DU TEMPLE, PARIS. —

“SOLAZZI” LIQUORICE JUICE

THE CHEMISTS’ BRAND.

‘The Lancet’ says: ‘Of Standard Purity’

Recommended also by *The British Medical Journal*, *Health*, *The Chemist and Druggist*, *Food and Sanitation*.

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

YOU ARE SAFE

in handling LORIMER’S

SANATOGEN

Not only is it the finest obtainable, but it is also
the most profitable. It yields

ONE HUNDRED PER CENT.

on cost to the Retailer.

JOHN LORIMER, Proprietor of A.-B. SANATOGEN,
119 Finsbury Pavement, LONDON, E.C. 2.

“SOWALT BRAND”
SUGAR OF MILK.
CASEIN. MILK POWDER.
LIQUID WHOLE EGG.

NALBOROUGH & SONS, LTD.
HARWICH, ESSEX.

ORIGINALLY ESTABLISHED 1829.



THE EXTRA PHARMACOPÆIA

NOW READY.

By MARTINDALE & WESTCOTT.

SIXTEENTH EDITION (1915). REVISED AND ENLARGED.

PRICE 21s. net; postage 5d., abroad 6d.
Separately, Vol. I., 14s. net; postage 5d. Vol. II., 7s. net; postage 3d.

"It is a book that is indispensable to the modern pharmacist, and in this case an old edition is not 'just as good.'—*Chemist and Druggist*.
"The two volumes together form an invaluable compendium of information."
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"The Extra Pharmacopœia maintains its high standard and more. All interested will welcome this new edition of an indispensable book."—*Pharmaceutical Journal*.

LONDON: H. K. LEWIS & CO. LTD., 136 GOWER ST., LONDON, W.O.
Also of W. MARTINDALE, 10 NEW CAVENDISH STREET, LONDON, W.

WILLS' UNIVERSAL POSTAL SYSTEM—Fee £1 1s.

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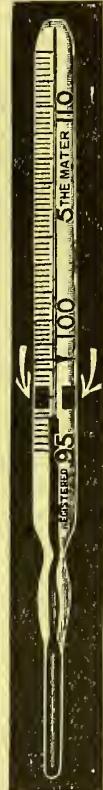
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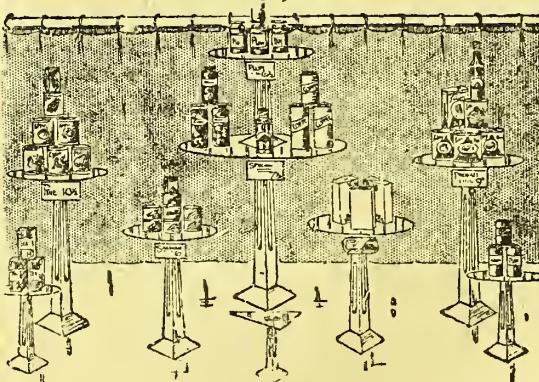
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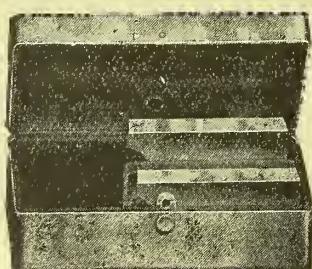
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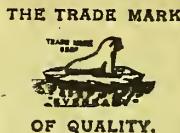
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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Friday, November 9.

Western Pharmacists' Association, "The Burlington," adjoining Finchley Road Station, London, N.W., at 8.45 P.M. Meeting of Hampstead Pharmacists.

Wednesday, November 14.

Manchester Pharmaceutical Association, Organic Lecture Theatre, Chemical Department, The University, at 3 P.M. Mr. E. G. Gaul, M.Sc., Ph.C., on "Bacteriology in its Relation to Pharmacy."

Thames Valley Pharmacists' Association, The Scotch Café, Kingston-on-Thames, at 3 P.M. Annual meeting.

Local Associations Executive Committee, 17 Bloomsbury Square, London, W.C., at 3 P.M. Meeting of Delegates to receive Report of Commissioners' Terms for the Drug-tariff, 1918.

Thursday, November 15.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Informal meeting.

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Arundel Street, Victoria Embankment, W.C. 2, at 7 P.M. Fireside social. Refreshments. Ladies invited.

Ucal Lodge of London, Progressive Pharmacy Club, Arundel Hotel, Arundel Street, London, W.C. 2, at 2.30 P.M. Annual meeting.

WEST HAM PHARMACISTS' ASSOCIATION.—The meeting, which had been arranged to be held at the Progressive Pharmacy Club, on November 15, has been postponed until November 22.

European War News.

Personalia.

PRIVATE S. A. W. RUTSHBROOK, R.E., has been wounded by shrapnel. He was in civil life an assistant with Boots, Ltd., at Union Street, Bath.

PRIVATE FRED SAVAGE is reported wounded. Prior to enlistment he was with W. Blythe & Co., Ltd., manufacturing chemists, Church, Lancs.

GUNNER R. BALDWIN has been "gassed," and is now in hospital in England. Previous to the outbreak of war he was with W. Blythe & Co., Ltd., manufacturing chemists, Church, Lancs.

LIEUTENANT J. F. ADDY, Shropshire Light Infantry, who was recently wounded, has been awarded the Military Cross. Prior to the war he served his apprenticeship with Mr. T. N. Moffitt, Ph.C., Crumlin Road, Belfast.

PRIVATE HOWARD SEXTON has been wounded by shrapnel in France and sent to hospital in England. He was apprenticed to Grimble & Kent, chemists, Boston, and was subsequently assistant with Mr. J. F. Collin, Ph.C., The Walk, Norwich.

MR. SYDNEY STEWART DUNN, second son of Mr. G. Stewart Dunn, chemist and druggist, High Street, Deal, has been gazetted second-lieutenant in the Royal West Kent Regiment. His brother, Captain F. A. S. Dunn, who is a chemist, is in a Canadian Regiment.

PRIVATE RONALD BLANKLEY, Royal Fusiliers (City of London), has been awarded the Military Medal. Before joining the Forces, Private Blankley was an assistant with A. S. Price & Co., Ltd., manufacturing chemists, etc., at the Brierley Hill retail branch.

MR. EDGAR WELLESLEY DOUGLAS, only son of Mr. J. Wellesley Douglas, chemist and druggist, Lambeth Walk, London, S.E., has been gazetted second-lieutenant in the Welsh Regiment. He trained in the Inns of Court O.T.C. and at the cadet school under the Aldershot Command.

FLIGHT-LIEUTENANT OSWALD M. HILLS, R.F.C., is reported missing after an observation flight over the German lines on October 21. Prior to joining the Forces, Lieutenant Hills was with Mr. John Milling, chemist and druggist, Cheshire. He took part in the battle of the Somme, and for gallantry on that occasion was awarded the Military Medal.

GUNNER HARRY FURNESS, second son of Mr. Walter Furness, chemist and druggist, Ansdell, has arrived wounded from France, and is in hospital. Gunner Furness has been in the Army over two years; he was previously an assistant with his father. His elder brother, Mr. R. Furness, M.Sc., has not yet recovered from the serious injury received in the explosion at Warrington (*C. & D.*, September 8, p. 39).

MAJOR D. A. COSSAR, Staff officer for Pharmaceutical Service, Melbourne, Australia, is undertaking a mission to the United States, Canada, Great Britain, and possibly France, to find out the conditions of pharmacists in the Army with a view of improving the organisation of the Pharmaceutical Service of the Australian Army. Major Cossar, who is a past-President of the Pharmaceutical Society of Australasia, was given a complimentary dinner at Sargent's Café, Melbourne, on August 1, at which were present General Fetherston, head of the Army Medical Service of Australia, Colonel Cusack, Principal Medical Officer of Victoria, and Major Hall, head of the Dental Corps.

Miscellaneous.

SURGEONS AND BACTERIOLOGISTS from Great Britain, the United States, Belgium, Italy, Japan, Portugal, and Serbia are taking part in the Inter-Ally Surgical Conference which opened in Paris on November 5.

GLYCERIN FROM WASTE.—The present rate of annual output of refined glycerin from the military centres in Great Britain is 1,200 tons, which will provide propellant charges for approximately fifteen million 18-pounder cartridges. The glycerin is obtained for the Government at a cost of 59. 10s. per ton. The price in America is nearly 350.

CHEAPER FEEDING-STUFFS.—The Food Controller has fixed the following maximum prices (per ton) for home-manufactured cakes, which effect a material saving on those now ruling: Linseed, 19.; cottonseed, 14. 10s.; undecorticated ground-nut, 17l. 5s.; decorticated ditto, 19l.; palm-kernel, 13l. 15s.; rape, 14l.; copra, 15l. 5s.; sesame, 18l. 10s. Prices have also been fixed for home-manufactured meals, imported cakes and meals, compound cakes, and millers' offals.

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Communications should be addressed "Corner for Students," The Chemist and Druggist, 42 Cannon Street, London, E.C. 4."

Report on October Analytical Exercise.

The powder distributed to students on October 9 consisted of equal parts by weight of lead nitrate, magnesium hydroxycarbonate, and potassium chloride. The calculated composition of such a mixture is:

Pb	...	...	...	...	...	20.8
Mg	...	...	...	...	...	8.5
K	...	...	...	...	...	17.5
NO ₃	...	...	...	...	...	12.5
CO ₃	...	...	...	...	...	15.6
Cl	...	...	...	...	...	15.8
OH	...	...	...	...	...	3.0
H ₂ O	...	...	...	...	...	6.3
						100.0

The sulphuric-acid radical in small proportion and traces of silver were present as impurities. Samples of the powder were distributed to twenty-eight students, and seventeen reports were submitted for examination. The writers were all successful in detecting the hydrochloric-acid radical, while the failures were: Lead, 3; magnesium, 2; potassium, 2; nitric-acid radical, 3; carbonic-acid radical, 1. Eight students did not detect the evolution of water on heating the powder in a dry test-tube.

This was a simple analysis in so far as the main constituents were concerned, and a high standard of marks was attained by most correspondents.

Owing to the solubility to quite an appreciable extent of lead chloride in water or dilute hydrochloric acid and of lead sulphide in moderately concentrated cold hydrochloric acid, some lead was frequently left in solution when the iron-group reagents were about to be added, and this gave rise to subsequent confusion of a kind which a number of our correspondents always experience when mixtures containing lead are distributed.

More than one correspondent describes the carrying-out of the ferrous-sulphate test for the nitric-acid radical in a way which does not permit of its being made as delicate as it can be made. Instead of mixing the liquid to be tested with sulphuric acid and then adding ferrous-sulphate solution, it is much better to mix the liquid with the ferrous-sulphate solution and then carefully to pour concentrated sulphuric acid down the side of the inclined test-tube so that it may sink, with as little mixing as possible, to the bottom and form a separate layer there. The dark coloration which forms at the interface (*i.e.*, the junction of the liquid layers) may take several minutes to appear in the case of dilute solutions, hence time for its development should always be given. The test-tube may with advantage be cooled in running water or placed in a beaker containing cold water.

The trace of silver was not observed by any correspondent. This is perhaps not remarkable, since the powder dissolved completely when boiled for some time with concentrated hydrochloric acid—a reagent in which silver chloride dissolves more freely than is known to most students. On boiling the original powder with dilute nitric acid, a slight and persistent residue was left which consisted of silver chloride, and acquired, on exposure to light, the dark grey colour which that substance assumes.

PRIZES.

The First Prize for the best analysis has been awarded to S. W. AATHERLEY, 86 Front Street, Arnold, Nottingham.

The Second Prize has been awarded to

J. W. B. YOUNG, 33 Square, Kelso.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

S. W. Atherley (1st Prize)	...	Oro	...	...	81
J. W. B. Young (2nd Prize)	...	Atom	...	...	76
Chamomile	...	J. C. N.	...	...	75
Indie	...	W. G. K.	...	...	75
Propane	...	Juan	...	...	73
Velox	...	Llen	...	...	70
C. O. P.	...	Mark	...	...	69
		Oio	...	...	67
		Melonia	...	...	45

2. Correspondent who has not indicated whether qualified or unqualified:

The Bing Boys 84

TO CORRESPONDENTS.

S. W. Atherley.—Even a colourless mixture may occasionally yield a coloured borax bead. Thus, anhydrous ferrie sulphate is colourless, and manganous borate is very nearly so.

Indie.—You do not indicate whether you heated the powder in an ignition-tube or in an open vessel. If the former, you should have noted the evolution of water, but if the latter, the quantity evolved was so small as to be readily overlooked.

Propane.—It is not sufficient merely to state that the hydrogen-sulphide precipitate was due to lead. Proof of the absence of other metals of the copper and arsenic groups should be furnished. For accurate analytical work you should provide yourself with dry sodium carbonate which you have proved by examination to be free from traces of sulphate and chloride, making it yourself if it is not procurable otherwise.

Velox.—The filtrate from the lead chloride was certain to contain some lead since the chloride is appreciably soluble in water and in dilute hydrochloric acid. The failure of hydrogen sulphide to yield any precipitate with this filtrate was owing to the latter containing too much hydrochloric acid, in which lead sulphide is by no means insoluble. In testing the sodium-carbonate extract for acid radicals, you report a nitric-acid solution as giving a precipitate of silver chloride on the addition of silver nitrate, and a neutral solution as not giving any precipitate with the same reagent, but these are irreconcilable reactions.

C. O. P.—Reactions due to incompletely precipitated lead may have caused you to conclude that zinc was present.

Oro.—In testing for the boric-acid radical by means of turmeric-paper, a strip of the paper itself should be submitted to a blank test (by immersion in dilute hydrochloric acid and drying) and then compared with the strip employed in the testing of the substance under analysis. Some commercial turmeric-papers actually contain traces of boric-acid radical. The black precipitate produced by ammonium hydrosulphide was due to lead.

Atom.—Your testing for potassium both by the flame-test and by aid of Carnot's test must have been perfunctorily performed. It is not sufficient to state "cannot detect bromide or iodide"—details of the methods and results of testing must be given. The powder was partially soluble—not insoluble—in water. The precipitation which led you to report aluminium was due to lead.

J. C. N.—The black precipitate produced by hydrogen sulphide in the solution to which ammonium chloride and hydroxide had been added, and supposed to be due to iron, consisted mainly of lead sulphide.

W. G. K.—You submit a carefully drawn up and lucid report, but your failure to detect the nitric-acid radical has seriously affected your position in the list. Practise upon mixtures containing a much smaller proportion of this radical until you attain skill in detecting it with certainty.

Juan.—Give more information as to your procedure. You detail under "Group Tests" the addition of various reagents, but you omit any indication as to what these reagents were added to. The method of preparation of a solution to be tested for metallic radicals is a matter of great importance, and should be described. The reactions of lead should not have been mistaken for those of bismuth.

Llen.—If you will try the experiment of dissolving some magnesium hydroxycarbonate in hydrochloric acid, and then adding magnesium sulphate to the solution with a view to obtaining a precipitate due to the carbonic-acid radical, the result will probably convince you of the absurdity of advancing in your report the alleged evidence of this supposed test.

Mark.—Proof of the presence of potassium should have been given. The flame coloration in the presence of lead was inconclusive.

Oio.—With careful observation the evolution of carbon dioxide should not have escaped your notice. The supposed cobalt was no doubt the lead which you failed to precipitate from a solution which was hot and too acid.

Melania.—You were the only correspondent who reported the powder as incompletely dissolved by hot dilute hydrochloric acid, but in examining the undissolved portion you seem to have permitted imagination to play too pronounced a part. The undissolved part consisted mainly of silver chloride (with perhaps traces of lead chlorido and sulphate) and was free from barium.

The Bing Boys.—The yellow precipitate which you supposed to be arsenious sulphide was most likely sulphur. Your evidence for the presence of arsenic is not very convincing, even had this element been present.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Birmingham Minimum Prices.

The November price-list issued by the Minimum Prices Committee of the Birmingham Pharmaceutical Association contains the following alterations, among others:

	Drugs.			
	1 oz.	2 oz.	4 oz.	1 lb.
	d.	d.	s. d.	s. d.
Beeswax, yellow ...	3	6	1 0	—
" white ...	3½	7	1 0	—
Camphorated oil ...	3	6	0 10	3 0
Compound liquorice-powder	2	3½	0 7	1 9
Cream of tartar ...	3½	7	1 0	3 9
Olive oil ...	3	6	0 10	3 0
Spirit of camphor ...	6	—	1 10	—
Sugar of milk ...	3	5½	0 10	3 0
Tincture of opium ...	8	—	2 6	—
Turpentine ...	pint, 1s. 3d.			

Proprietaries.

Calvert's Toilet-soap, 1s. 3d. per 3-tablet box.

Tooth-powder, tins, 6d.; 1s.; 1s. 6d.; card boxes, 5d., 10d.

Colgate's Dental Cream, 8d., 1s. 3d.

Gibbs's Shaving-sticks, 6d., 1s.

Luton Hat-dye, 10d.

Society of Apothecaries of London.

At the Assistants' examination, which commenced on October 22, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:

Anglim, C. M.	Greenhalgh, C. C.	Priestley, D. M.
Ayton, L.	Gregar, L. M.	Puddy, M.
Baily, May	Haigh, G. E.	Quincey, M. E.
Bargery, E. M.	Haines, M. M.	Randall, L.
Barrass, D. E.	Harris, G. B.	Rawstorne, M. D.
Booth, M.	Harrison, N. G.	Reed, R.
Bowden, M. A.	Hatch, A. M.	Reeve, W. A.
Bridges, L.	Hewlings, M. M.	Ricketts, B.
Bruntun, M.	Hodgee, S.	Robinson, D. M. B.
Burlett, D. E.	Holmes, D. M.	Robson, M. S. D.
Buttrick, T. B.	Holt, A. M.	Routledge, N.
Callender, D. M.	Howard, B. N.	Savage, E.
Calvert, I. C.	Keppel, D.	Saville, G.
Carden, K. M.	King, K. M.	Servaes, N. C.
Carver, M. R.	Knight, L. M.	Smith, E. G. M.
Cass-Smith, J.	Kuhne, J.	Smith, M.
Caswell, I. M.	Lang, L. A.	Storer, H.
Ceppi, J.	Learnmount, K.	Strike, A. J.
Chappell, G. H.	Lloyd-Jones, E. F.	Taylor, W.
Choate, L. N.	Longman, M.	Thompson, E. M. B.
Clapham, D. K.	Lowman, D. M.	Tonks, G. I.
Clearay, H. K.	McCormick, L. I.	Trevelyan, O. C. E.
Coleman, F. A.	MacLean, M.	Vockins, L. M. C.
Collings, V. M.	Merry, M. N.	Walker, O. M.
Cooper, M.	Middleton, K. E.	Walsh, L. M.
Cotes, A. M.	Moss, M. E.	Ward, G. M.
Coultas, E. J.	Moysey, K.	Watson, A. N.
Davis, G.	Muschamp, F. A.	Webster, J. E.
Devey, J. R. O.	Newsham, G. M.	Webster, L.
Dunning, J. E.	Nicholas, A. E.	West, C. R.
Field, D. M.	North, C. M.	Westbrook, M. R.
Fleming, D.	Orrell, M.	Westwood, E. M.
Fleming, E. E.	Park, D.	Williams, G. S.
Fothergill, I.	Phillips, M.	Wingfield, M. M.
Fulford, C. R. L.	Phillips, W. E.	Wood, G. H.
Gardner, K. M.	Pim, K. M.	Woods, M. A.
Gill, P.	Pledge, M. M.	Wright, E. P.
Girling, K. B.	Porter, M. A.	

Guardians' Affairs.

The Lambeth Board of Guardians' consumption of rectified spirit has risen from 50 gals. in a given period of 1916, costing 83*l.*, to 62 gals. in the corresponding period of 1917, costing 111*l.* The increase is attributed to the extended use of iodine, especially prior to operations.

Contract.

The following tender has been accepted:

Darlington Town Council.—Mr. F. Stainsby, chemist and druggist, drugs for the hospital.

The Sugar-supply.

The Sugar Order, 1917, issued on October 12, has now been published under the Statutory Rules and Orders Act as No. 1,049, 1917. The regulations are fairly familiar to our readers, but the following clause is new:

14. (b) The preparation of sugar-syrup, whether pure or flavoured, shall for the purposes of this Order be deemed to be a manufacture, and the syrup as manufactured shall be deemed to be sugar equivalent to the quantity of sugar contained therein, but nothing in this Order contained shall prevent a pharmaceutical chemist or chemist and druggist from obtaining syrup (whether flavoured or unflavoured) for the purpose only of com-

pounding medicines: Provided that no person shall use any syrup obtained for that purpose for any other purpose whatsoever.

The Order does not apply to Ireland.

Birmingham.

The difficulty of packing dry chemicals for transport is so acute that well-known manufacturing firms are advertising for butter and sugar barrels for this purpose.

Mr. Frederick Jacks, J.P., whose Masonic appointment was recently announced (*C. & D.*, November 3, p. 39), was trained in the pharmacy of Bellamy & Wakefield, Easy Row.

A picture of an ancient corner of Birmingham is on view in a dealer's shop, showing, at the junction of Great Charles Street and Congreve Street, a pharmacy with the sign, "Thorpe, Chemist."

An assistant carbolic-plantsman named Thomas Hayes, employed at the chemical works of J. Hardman, Ltd., Aston Church Road, was fatally burnt recently by slipping into a vat of carbolic-acid.

A suggestion was recently made that the local pharmacists should absorb the General Dispensaries of the city, which were founded in 1793. Last year these institutions treated 51,697 patients, and showed a deficit of 2,631*l.*

Southall Bros. & Barclay, Ltd., are advertising locally, first-aid cupboards in accordance with the specifications of the new Factory Order. They also undertake to build and equip ambulance rooms where 500 persons are employed.

The course of lectures in bacteriology, previously postponed, held under the auspices of the Birmingham Chemists' Field Ambulance, will commence on November 13 at Bristol Street Schools, in the upper rooms, at 8.30 P.M.

Bradford.

The bogus detective whose novel confidence trick cost a local trader 60*l.* recently (*C. & D.*, October 13, p. 35) has at last been arrested at Manchester, where similar charges against him are also pending.

The Spennborough District Council has refused permission for the use of Crow Trees Tannery, Cleckheaton, as a lanoline-factory, on the ground that the trade is a noxious and offensive one within the meaning of the Public Health Acts.

The Health Committee of the Bradford City Council, at a recent discussion on the proposed Ministry of Health, deprecated any attempts to transfer the administration of public health to non-representative bodies, and suggested that Parliament could not deal with the subject at present with the care and comprehensiveness required.

Liverpool.

Much interest is being shown in the sale of the Liverpool and St. Helens estates of the late Sir Joseph Beecham, Bart.

Mr. John H. Robinson, The Exchange Pharmacy, is spending a few days among Devon and Cornish friends before making one of his periodic visits to the London wholesale houses.

The Lancashire County Council has sanctioned the following grants, among others, out of the County Fund: 14,000*l.* for carrying out the regulations with regard to venereal diseases during 1913-19; 400*l.* to enable the county medical officer of health to carry out bacteriological examinations.

The "Lancet" (November 3) devotes an editorial article to the paper on "Enemy Patents and Trade-marks" which was read on October 24 before the Liverpool Chemists' Association. After referring to the necessity of taking the advice of counsel before employing the registered names of patented goods, the article states:

"There is, however, a good deal in the suggestion made by Mr. Woolley that the opportunity should now be taken under the Patents, Designs, and Trade-marks (Temporary Rules) Act, 1914, or by means of similar legislation passed to meet the requirements of a particularly important period in our industrial development, to purge the register of all marks which ought not to be there, in so far as they tend to hamper the otherwise permissible production of articles of public utility and benefit. In this category many chemical preparations from which German inventors have derived their full share of profit would undoubtedly fall. Apart from the above question, Mr. Woolley's lucid summary of the history of patent and trade-mark legislation will be found worth reading."

Manchester.

The stock of a wholesale chemist was sold by auction at the Memorial Hall, Albert Square, on October 31, when there was a large attendance. The following prices were paid:

Twenty-five barrels cod-liver oil, 1916, 20*l.* 10*s.* per barrel; 4,000 oz. quin. sulph., 3*s.* 2*d.* per oz.; 27½ lb. phenacetin, 60*s.* per lb.; 100,000 aspirin tablets, 12*s.* 6*d.* per 1,000; 55 lb. calc. glycerophos., 12*s.* per 11 lb.; 150 bottles formamint, 1*s.* 2*d.* per bottle; 75 tins sanogen (5*s.* size), 2*s.* per tin; 99 lb. pulv. nucis vom., 10*d.* per lb.

Sheffield.

Most pharmacists are satisfied with the sugar allotted to them; if there is any case of hardship it may be submitted to Mr. Kenyon at the Town Hall.

The paper by Mr. W. L. Currie, Glasgow, announced to be read before the local Society on November 14, will be given on the afternoon of Thursday, November 15.

Mr. T. F. Burdekin, chemist and druggist, Bellhouse Road, Firth Park, has another attractive window-display of toilet-articles. The present one is on a white ground.

Dark nights and other circumstances are materially reducing the local chemists' evening trade, especially as most of the large drapery and other stores are closing at six o'clock.

Chemists in the suburbs who wish to take up panel dispensing at present done by doctors should send particulars at once to the Secretary of the local Pharmaceutical Committee, in order that arrangements may be made for 1918.

Miscellaneous.

ROYAL INSTITUTION.—At a general meeting of the members on November 5 (Sir James Crichton-Browne, F.R.S., Treasurer, in the chair), special thanks were returned to a lady member for an anonymous gift of 500*l.*, and to Mr. Richard Pearce for a donation of 100*l.* to the Fund for the Promotion of Experimental Research at Low Temperature.

THEFT OF OPIUM.—At Thames Police Court, London, E., on November 1, William Album and William Smith pleaded guilty to a charge of stealing 18 lb. of opium, valued at 29*l.* 4*s.*, the property of Whiffen & Sons, Ltd., Southall. The drug was found by the police on a lorry in charge of the prisoners. Album was sentenced to two months' imprisonment, and Smith was bound over.

UNSTAMPED MEASURE.—At Halifax Police Court on October 30, Mr. Jabez Swire, Ph.C., was summoned for having in his possession for the purpose of trade an unstamped glass measure. For the defence it was explained that the unstamped measure had been placed in error on a shelf with stamped measures, but that there was no likelihood of its being used for trade, as it was distinct from the stamped measures. The summons was dismissed, an order for payment of costs being made.

Poisonings.—The following cases of poisoning have been reported during the past week: Annie Daisy Parker, a clerk in the service of the Ministry of Munitions, died in Guy's Hospital, London, S.E., about six weeks after taking spirit of salt in her medicine.—William Henry Overy, Tyers Street, Vauxhall, London, S.E., a butcher's assistant, committed suicide with oxalic acid in a fit of depression attributed to air-raids.—An open verdict was returned at an inquest on Mr. Charles Richard Göringe, varnish manufacturer, lately residing at Dartmouth Park Avenue, London, N., who died of strychnine poisoning. Police inquiries were made throughout the metropolitan district in order to ascertain whether any strychnine had been sold by chemists about the time of the death, but no such sale was known to have taken place.

Irish News.**Brevities.**

Mr. J. Carroll Culbert, Ph.C., Connswater, Belfast, has been appointed on the executive of the Belfast Boy Scouts' Association.

At Ballymena Quarter Sessions on November 2, Thomas McFall, Samuel Wallace, John Russell, and John O'Hara were indicted for having, at Ballymena, maliciously committed damage to two windows in the shop of Mr. John Alex. Woodsid, Ph.C., Church Street, Ballymena. Evidence was given by Mr. Woodsid that the damage done to the mahogany framework and pilasters amounted to 25*l.* The jury returned a verdict of not guilty, and the boys were discharged.

At Carlow Quarter Sessions, before County Court Judge Brereton Barry, Mr. James Bolger, Ph.C., Tullow Street, Carlow, sued the G. S. & W. Ry. Co. to recover 4*l.* 10*s.* for alleged breach of contract in the carriage of four hampers containing empties. The hampers were being returned to R. Sumner & Co., Liverpool, and were lost, but the company pleaded that they were not responsible. His Honour held that they were, and gave a decree for the full amount claimed.

The Clerk told the Dundalk Guardians that the analyst was not willing to accept a fee of 6*s.* per drug-sample analysed, as fixed by the L.G.B. in 1916. He stated that

he never agreed to accept it. He was paid 18*l.* a year, and the Guardians proposed to continue that, and the L.G.B. sanctioned it for one year on the understanding that the rate after that period would be 6*s.* per sample. Now Mr. McMullen contends that he never agreed to those terms. The matter was referred to the L.G.B.

At the Belfast County Court on November 2, Mr. William Haslett, druggist, Alberta, Ravenhill Road, sued J. Tyrrell & Co., Tomb Street, for 10*l.* in lieu of a month's notice. Plaintiff gave evidence that he was employed by the defendants in June last as traveller at 16*l.* per month and commission. In July defendants approached him, and asked him to work at 2 per cent. commission on goods sold. This he refused to do. Defendants' case was that they took the plaintiff into their employment on a month's trial. His Honour, in dismissing the case, said he believed that the defendants' version of the case was the correct one.

Scottish News.**Brevities.**

Diphtheria has been rife in the East of Scotland; the demand for serum has exceeded all past records.

Dunfermline pharmacists report very good business, largely attributed to the influx of naval and military men.

Allotment-holders have a grievance. For pickling their crops of red cabbage, etc., they cannot procure either vinegar or acetic acid.

Mr. Findlay Stuart, chemist and druggist, Dunclutha, Broxburn, has been appointed on the Commission of the Peace for the county of Linlithgow.

Last week an advertiser asked for offers for a ton of used tea-leaves. The leaves are used for the extraction of caffeine, the ordinary infusion only removing a small proportion of that stimulating alkaloid.

The Board of Agriculture has approved the extensive cultivation of flax in Scotland, and, accordingly, 280 acres of pasture will be converted for that purpose in the Dunfermline district (see *C. & D.*, October 6, p. 36).

Mr. James Jack, Ph.C., Arbroath, has presented to the Arbroath Public Library Committee an autograph letter, dated December 3, 1836, written by Robert Stevenson, the designer of the Bell Rock Lighthouse and grandfather of Robert Louis Stevenson.

A letter recently appeared in the "Scotsman," quoting from the "Newcastle Courant" of December 1816 an account of Sir H. Davy's experiments with "common magnesia" in bread-making. There has been quite a run on mag. carb. in consequence.

Incorporation of Guildry Brethren.

At the annual meeting of the Incorporation of Guildry Brethren, Mr. Edward Spence, pharmacist (Robertson & Co., chemists, 24 Circus Place, N.W. Edinburgh), and Mr. William W. Spence, pharmacist, Chloroform Pharmacy, Linlithgow, were elected members of the Dean's Council for the ensuing year. In ancient days this body supervised all matters connected with buildings in the Burgh, examined all weights and measures used, and secured honest trading; discharged such sanitary duties as seemed called for, supported many poor people, and extended help to the stranger within the gates; contributed towards the stipend of the Council's second ministers, and the pension of their schoolmaster, and periodically presented with a black coat the Burgh officer who went through the town with the "Dead Bell."

Dundee.

The circulars sent out by the Public Health Department, Dundee, regarding free treatment of venereal disease contain the objectionable references to "druggists" to which we called attention some time ago. The Local Government Board should recognise that to insult chemists in this way is not likely to ensure willing co-operation in the efforts that are being made to see that treatment by medical men is brought to the notice of the sufferers.

Glasgow.

The Royal Polytechnic is holding a "beauty week," the attractions of which include free consultations with a lady toilet expert.

Mr. G. Winchester, chemist and druggist, who has opened a business at West Kilbride, will continue to represent Robert Young & Co., Ltd., Glasgow.

The staff of Lorimer & Moyes, Ltd., druggists' sundries-men, Glasgow and Edinburgh, have contributed 4*l.* 13*s.* 6*d.* to the Scottish Section of the Red Cross Society.

Legal Reports.

Epsom Salts.—At Newry Petty Sessions on October 31, Robert and Edwin B. Cinnamon, Bessbrook, were charged with supplying Epsom salts containing 8 parts of arsenic per million, the limit in the British Pharmacopœia being 5 parts. Mr. Donelly, for the defence, said that the salts were supplied for cattle, and not for human use. The inspector was offered Epsom salts in packets which were for human use, but he refused them, and was supplied with loose salts kept for administering to cattle. The case was dismissed on its merits.

Pharmacy Act Cases.—At Glasgow Sheriff Court, on October 26, Jeanie Murray, assistant in the shop of Joseph E. Black, 365 Holmes Road, Cathcart, was fined 1*l.*, and 1*l.* 2*s.* 6*d.* costs, for selling strichnine as an ingredient of a mixture, she not being a registered chemist. The mixture was sold in the absence of the qualified owner of the business, and it was stated that a chemist has since purchased the business, so that the offence cannot occur again.—At Bow County Court, London, on October 31, William Cooper, 179 Salmon Lane, Limehouse, E., was ordered to pay 5*l.* penalty, and costs, for selling veratrine in the form of Rankin's ointment, he not being a qualified chemist.

Stopping German Trade.—In the City of London Court on November 1, before Judge Atherley Jones, K.C., Mr. Victor Abraham, 18 Colville Terrace, Bayswater, sued the Allied Manufacturers' Guild, Ltd., 24 Coleman Street, London, E.C., for 84*l.*, two weeks salary at 4*l.* a week and damages for breach of agreement. Plaintiff declared that defendants wanted to alter the payment of his salary from weekly to monthly, and he urged that this put an end to his contract. The Guild was formed to develop trade in chemical goods between England and the Allied and neutral countries to stop dealing in German goods. It co-operated with manufacturers to that end. Plaintiff undertook that class of work, but owing to import and export restrictions the company could not get an income. Plaintiff's services were partially of no use to the Guild. He agreed to take his salary monthly. Judge Atherley Jones said plaintiff had no right to assume he would not get his salary. There had been no breach by the defendants. Plaintiff would get the 8*l.* paid into court as wages, but no more. Judgment accordingly.

Alumina-sulphate Contract.—In the High Court, London, last week, before Mr. Justice Rowlatt, Wilson & Co., chemical-merchants, Bevis Marks, London, E.C., brought an action against F. Hartley Florey, Lower Thames Street, E.C., for the balance of the price of goods sold and delivered under contract. Mr. Douglas Hogg, K.C., for plaintiffs, said the contract related to sulphate of alumina. The defence was that the contract was for that chemical with 17 to 18 per cent. of sulphate, and with not more than 0.05 per cent. of iron. The chemical as delivered contained about 0.35 or 0.37 per cent. of iron, and this, the defendant claimed, made a difference in the market value of 950*l.* The chemical was of American origin, as English makers were unable during the war to supply the usual product, which was free from iron. The alumina was required for use in paper-manufacture, and the iron present would prevent the manufacture of a pure white paper. Mr. Justice Rowlatt in his judgment referred to many estimates as to the value of the chemical which had been put before him, and said that he must take it as worth more than 7*l.*, which was what one witness valued it at, because it was actually sold at 18*l.* Judgment was given for 109*l.* 19*s.* 2*d.* on the claim, and also on the counter-claim, with costs.

Shops Act.—At Marlborough Street Police Court, London, on October 31, the adjourned summons under the Shops Act was heard by Mr. D'Eyncourt against Mr. J. P. Ellington, chemist and druggist, 52 Wardour Street, London, W. Defendant was charged with serving customers on Thursday afternoon, July 26, which was an early-closing day. The case had been adjourned to allow defendant to appeal to the London County Council on the general principle of the case. Defendant pointed out that the summons was taken out while another case for a similar offence was *sub judice*. Mr. D'Eyncourt imposed a fine of 3*l.*, with two guineas costs.—At the same court an adjourned summons was heard against Mellin's Food, Ltd., Marlborough Works, Peckham, in regard to their shop in Piccadilly Circus, W. Mr. C. H. Kirby, for the defence, said that defendants' position was that chemists have special difficulties in regard to the Shops Act. They are compelled to open for dispensing-purposes. The Act contains a provision that shop-assistants should have a weekly half-holiday, and the defendants had always taken care to comply with that

provision. They admitted selling two articles on Thursday in the week mentioned in the summons contrary to the Order, but as they were open for dispensing-purposes it was practically impossible for a salesman to distinguish at a moment's notice whether he was selling in contravention of the Order or not. This shop was situated in a region of hotels, the population of which was largely composed of foreigners, and it is necessary for those in business to know several languages. It is also necessary there should be some arrangement whereby these people should be served; and he thought the Council could have made the requisite arrangements and not penalise shopkeepers so that customers should have to go to another shop. Mr. D'Eyncourt said he quite appreciated the difficulties of the defendants, but other traders had difficulties. It would be more convenient if the traders could close on different days, but they all chose the same day. He fined defendants 1*l.*, with two guineas costs.

Ethyl-chloride Stills.—In the Official Referee's Court on November 2, Mr. Pollock, High Courts Official Referee, gave judgment in an action in which Hedley & Co. (Leytonstone), Ltd., manufacturing chemists, claimed from Geo. Howson & Son, Eastwood Sanitary Works, Hanley, 3,162*l.* as damages for breach of contract. The plaintiffs, manufacturers of ethyl chloride, ordered from defendants in February 1915 three stills, each to contain 220 gals., and it was alleged that defendants warranted that the stills would be fit and proper for the purpose of carrying out the process required by the plaintiffs. When the stills were delivered they were found to be porous and leaky, and in consequence the works were brought to a standstill, and plaintiffs were thereby deprived of the profits which they would have made had the stills been according to warranty. The defense was that the stills were delivered according to an oral order of May 1915, and that it was recognised that the order was of an experimental character. Defendants also denied warranty, and counterclaimed for the return of one still and damages for detention, and 46*l.* for goods sold and delivered. The Official Referee, in giving judgment, stated in detail the facts of the case as given in evidence, and said that plaintiffs used to get their stills from Germany, but on the outbreak of war they were no longer able to do so, and experienced some difficulty in obtaining renewals. They seemed to have gone to various pottery-manufacturers without success, and ultimately went to the defendants in October 1914, who quoted for the stills, and it was alleged that a warranty was contained in a letter written by the defendants to the plaintiffs by which they were tied down. In that letter they said they could make the stills in their fireclay material, which they thought would be suitable and capable of resisting the conditions mentioned, and they thought they would in every way be suitable. That, he thought, did not amount to such a warranty as was suggested by the plaintiffs. The defendant company had never made a still before, and that they pointed out to the plaintiffs. He was of opinion that plaintiffs could not claim under the contract which they had set out in the statement of claim. In his opinion the plaintiffs had failed to make out their case, and there would be judgment for defendants, with costs on the claim and counterclaim.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

ERNEST COTTRELL, LTD. (P.C.)—Capital 1,000*l.* Objects: To take over the business of a chemist and druggist carried on at Greenfield, Saddleworth, Yorks, by Nelson Brierley. R.O., Victoria Pharmacy, Greenfield, Saddleworth.

CHEMISTS MANUFACTURING CO., LTD. (P.C.)—Capital 100*l.* Objects: To carry on business as manufacturers of and dealers in toilet, chemical, pharmaceutical, industrial, and other preparations and articles. Solicitors: Swepstone & Co., 9 St. Helen's Place, London, E.C.

BRUNNER, MOND & CO., LTD.—The directors have declared an interim dividend on the ordinary shares for the six months ended September 30 at the rate of 25 per cent. per annum, less income-tax.

TAYLORS' DRUG CO., LTD.—At the annual meeting held at the Hotel Metropole, Leeds, on November 5, Mr. H. C. Roberts, M.P.S. (the retiring director), and Messrs. Lee and Whitfield, auditors, were re-elected. It was reported that for the year ended June 30, 1917, the profits amounted to 13,471*l.* A dividend of 10 per cent. for the year was declared on ordinary shares; 7,488*l.* was placed to reserve; and 5,894*l.* was carried forward.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres. ENGLAND.

Birmingham.—The report of the Pharmaceutical Committee for the year ended June 30 last has been issued. It deals, *inter alia*, with the assistance rendered by the Committee to the Military Tribunal, with the work of the Central Checking Bureau, and the effects of early closing. During 1916 920,837 prescriptions were dispensed, valued at 19,453*l.* 9*s.* 10*d.*; the average value being 5.07*d.* (drugs 2*d.*, fees 2.97*d.*). The Committee's expenses for 1916 (including cost of checking) worked out at 1.7 per cent. There were 138 persons or firms on the panel (131 dispensing and 7 non-dispensing), the number of shops being 189 (178 and 11 respectively).

Kesteven.—At the meeting of the Insurance Committee, the Medical Benefit Sub-Committee recommended a further payment on account as regarded practitioners at the rate of 1*s.* 4*d.* per head, and 1*s.* 9*d.* where the drug capitation fee was payable; as regarded Approved Institutions at 1*s.* 9*d.* per head, and as regarded chemists a payment of the full amount of their accounts as checked to date. The Clerk reported that the necessary information had been received from the Commissioners to enable a settlement to be effected with practitioners and Approved Institutions in respect of the year 1916, and it was resolved that the Committee be recommended to pay the balance due accordingly. A communication was received from the Prescription Pricing Committee with reference to the calculation by the Committee of the additional sum of 3*d.* per prescription payable to chemists, and it was resolved that their suggestion be agreed to, provided that the Committee's ordinary medical benefit funds were not affected. A communication was received from the Manchester Insurance Committee with reference to steps being taken by the Government relative to a sufficient supply of glycerin for medicines. It was resolved that the Committee be recommended that no action be taken. The report was adopted. Payment was ordered to chemists on account of 1917 of 20*s.* 1*s.* 4*d.*

Sheffield.—At a meeting of the Insurance Committee on November 6, it was reported that a charge against a panel practitioner of using bad language to an insured patient was substantiated, and the doctor has been requested to abstain from the practice. The Commissioners have agreed to a revision of the scale of expenses for members of the Committee—viz., 1*l.* for each night (covering twenty-four hours), with 10*s.* for each part-day. A special Committee has interviewed Sir Robert Morant on the inflation of the doctors' lists, but without success. Payment to chemists was ordered of 650*l.* 6*s.* for the balance of August and on account of September.—The Pharmaceutical Committee met at the Insurance Offices on November 2, Mr. A. H. Culverhouse presiding, when the report of the Checking Bureau on the prescriptions for May and June showed that a large number of articles had not been priced. It was decided to report the matter to the Insurance Committee and ask that arrangements be made for the payment of the omitted items. It was further reported that the pricing of liniments had only been allowed for as methylated, although a definite instruction had been given that the B.P. article should be dispensed. As the Panel Committee still adhered to its previous decision, the Insurance Committee is to be asked for payment for those already dispensed and requested to issue an instruction to the pricing officials to price the prescriptions in future as written. The Secretary brought forward the question of dispensing by medical men in districts where a chemist has commenced business since the present arrangements were made, and it was left in the hands of the Chairman and Secretary to take the necessary steps to secure all the dispensing within a mile radius of the chemist.

Southport.—The Insurance Committee met on October 31, Mr. J. Gordon presiding, and the members present including Messrs. J. Righton and F. Battersby, chemists' representatives. On the recommendation of the Finance Sub-Committee, payment was ordered to chemists of 70*s.* 9*d.* in respect of the Drug Account for August and September. The resignation of Dr. A. Henderson from the panel was accepted. Mr. Chafe submitted a resolution approving of the establishment of a Ministry of Health, and in the course of the discussion the Chairman said he would support if only it meant merging the powers of the Insurance Commissioners into the new Department. The Commissioners were

responsible to no one in Parliament, and they were most difficult to get access to. It was not necessary to have duplication in matters of health. The proposition was carried, and copies were ordered to be sent to the five members of the War Cabinet.

Surrey.—At the meeting of the Insurance Committee on October 31, at Caxton Hall, Westminster, S.W., the Medical Benefit Sub-Committee reported that since July 4 permission has been granted to twenty-one insured persons to make their own arrangements for Medical Benefit. With regard to the provision of medicines to invalided sailors and soldiers, orders may be given in the ordinary way on the Committee's prescription-form; and where the doctor dispenses his own prescriptions the Commissioners will approve payment at a flat rate not exceeding the average cost per prescription as disclosed by the statistical data for 1916. Non-panel practitioners may also agree with the Insurance Committee for the treatment of these cases. The Chemists and Military Service Sub-Committee (which consists of three representatives of pharmacy and six members of the Insurance Committee) considered that chemists are not sufficiently represented on that body, and recommended the addition of two pharmacists to the Sub-Committee. Letters had been received from the National Association of Insurance Committees and from the Kent Insurance Committee opposing the enlistment of men suffering from pulmonary tuberculosis, and from the Huddersfield Insurance Committee recommending that soldiers found to be so suffering should be retained under military control while in receipt of sanatorium treatment from an Insurance Committee. The Finance and General Purposes Sub-Committee reported on a further list of delayed accounts for May received from chemists. These numbered thirty-two, and varied in lateness of presentation from three days (fifteen cases) to more than two months (one case). A strong letter of remonstrance has been sent to those chemists whose accounts were more than a week late.

WALES.

Cardiganshire.—The Insurance Committee met on October 26, when a communication from the Insurance Commissioners was read as to the form of payment for medicines supplied by practitioners to invalided seamen, marines, and soldiers. The letter stated that it was open to the Committee to arrange for the medicines to be paid for at a flat rate. If this system was adopted the Commissioners would be prepared to approve of payment being made at a flat rate not exceeding the average cost per prescription (to the nearest penny up), as disclosed by the statistical data relating to the year 1916. Where this system was not adopted, the doctor would be required to submit details of prescriptions to be priced and paid for in the same way as medicines supplied by chemists. The Clerk explained that the average price paid by the Committee in 1916 was 7.2*d.*, which was the highest in Wales. In Carmarthen the rate was 6*d.* Dr. Davies pointed out the need of uniformity. He had not brought the matter before the Panel Committee, but, speaking in a private capacity, he was positive that the practitioners did not want to price the medicines, but would accept the flat rate. He proposed, if the Commissioners approve, that the flat rate be 7*d.* for this county.—Mr. Morgan seconded the proposition, which was carried.

Notes.

INSURANCE INQUIRIES.—The Pharmaceutical Society is sending out circulars inviting those who receive the circular to send inquiries relating to National Health Insurance dispensing. The receiver is given hints as to what questions to ask, and it is added: "Others will no doubt suggest themselves to you." Whether the local Pharmaceutical Committees will appreciate this touting circular is doubtful, as it seems to imply that the information obtainable at the Central Checking Bureau is superior to that which chemists have been accustomed to obtain from the Secretaries of Pharmaceutical Committees who are fully acquainted with local conditions.

A SERIOUS SITUATION has arisen in Shetland owing to the scattered population. Panel doctors (except in Lerwick) have been in the habit of supplying medicines on the capitation principle. This has caused a big drop in the drug fund, and the four local chemists are faced with a deficit of 125*l.* spread over the last three years. After consultation the chemists have agreed to discount the 25*l.*, and an appeal is made to Scottish pharmacists for subscriptions to raise a fund to compensate for the remaining 100*l.* Arrangements have been made with the doctors which will keep the cost of drugs in future well within the drug fund total. Several pharmacists have already given donations of a guinea, but any sum will be gratefully accepted.

Birth.

STEPHENS.—At Whakatane, Bay of Plenty, New Zealand, on July 31, the wife of Alan Stephens, chemist and druggist (formerly of London), of a daughter.

Deaths.

BARBER.—At The Laurels, Cedar Road, Sutton, Surrey, on November 3, after a short illness, Mr. Edward Barber (formerly of Edward Barber & Son, Colonial brokers, 1 to 4 Great Tower Street, E.C.), aged eighty-six. Mr. Barber, who retired in 1907, had been associated with the Mincing Lane produce-trade for sixty years.

LE FEVRE.—At Harrold, Beds, on October 23, Mr. William Le Fevre, chemist and druggist, aged seventy-six.

LYLE.—At 13 Ravensdowne, Berwick-on-Tweed, on October 25, Mr. William Lyle (Lyle & Co., wholesale chemists), aged sixty-one. Mr. Lyle was Sheriff of the borough in 1902, and for many years had been a member of the Town Council and of other public bodies.

NEWALL.—At Ayr, recently, from heart-failure, Dr. Joseph Newall, aged forty. Dr. Newall qualified as a chemist and druggist in 1897, and subsequently entered the medical profession, taking the M.B., Ch.B. of the Edinburgh University in 1907.

TILLOTT.—On October 25, Mr. William John Tillott, father of Mr. J. B. Tillott, Ph.C., aged sixty-nine. Mr. W. J. Tillott was in business in Westminster for upwards of fifty years, and was the founder of Tillott's Drug-stores, 37 Marsham Street, London, S.W.

WINFREY.—At Long Sutton, Lincolnshire, Mrs. R. F. Winfrey, mother of Sir Richard Winfrey, M.P., Ph.C., Parliamentary Secretary to the Board of Agriculture, aged ninety-one.

Died on Service.

ALEXANDER.—Corporal John Alexander, Royal Scots, has been killed on service, aged twenty-two. Prior to enlistment he was on the staff of T. & H. Smith, Ltd., manufacturing chemists, Edinburgh.

BAGULEY.—Private Frank Baguley, Army Servicemen Corps, was killed in action in France on October 23. His apprenticeship in pharmacy was served with Mr. S. H. Plattin, chemist and druggist, Derby Road, Nottingham.

BROWN.—Lieutenant Eric H. Brown, Essex Regiment, was killed in action in France on October 22. He was the younger son of Mr. A. D. Brown, Ph.C., Halstead.

Cousins.—Private Ernest E. J. Cousins, Gloucestershire Regiment, has fallen in action. His apprenticeship was served with Shields & Warren, chemists, St. Albans, and he subsequently became their senior assistant.

DAVIES.—Private Harold Davies, Cheshire Regiment, was killed in action on October 25, aged nineteen. Prior to enlistment he was with his cousin, Mr. Frank Davies, chemist and druggist, Huddersfield Road, Oldham.

DOUGLAS.—Lieutenant David Douglas, East Lancashire Regiment, has died of wounds, aged twenty-two. Prior to joining the Army Lieutenant Douglas was an assistant with Mr. Taylor, chemist and druggist, Prestwich.

DUNN.—Lieutenant James Dunn, Seaforth Highlanders, has fallen in action. Lieutenant Dunn was an assistant with Mr. J. Stowart, Ph.C., George Street, Limerick, on the outbreak of war, when he joined the Army, subsequently taking part in various "pushes" in France.

EDWARDS.—Private F. G. Edwards, Royal Sussex Regiment, has fallen in action. For several years he was with Mr. Gallier, chemist and druggist, Carfax.

EVERITT.—Lance-Corporal T. A. J. Everitt, Norfolk Regiment, was killed in action on October 15, aged twenty-three. His apprenticeship was served with Mr. E. Gane Inge, chemist and druggist, Mundesley.

FURBY.—Pioneer G. Furby, R.E., was killed in action on October 18. Prior to joining the Colours he was an assistant with Taylor's Drug Co., Ltd., at the Station Parade, Harrogate, branch.

HARTLEY.—Second-Lieutenant Ernest Hartley, Loyal North Lancashire Regiment, was killed in action on October 26. Second-Lieutenant Hartley, who qualified as a chemist and druggist in 1911, was a member of the firm of Hartleys, chemists, Burnley, Nelson, and Accrington. On the out-

break of war he joined the Forces, and was subsequently wounded at the battle of the Somme. He was married in June last.

McJANNET.—Second-Lieutenant Arthur William McJannet, R.F.C. (fourth son of Mr. James McJannet, Ph.C., East London, South Africa), was killed in action on October 31, aged twenty-six.

MILSOM.—Private Clarence Milsom, York and Lancaster Regiment, was killed by shell-fire on October 7. Prior to enlistment he was on the clerical staff of the Killermont Co., Ltd., manufacturing chemists, Cleckheaton.

PARRISH.—Private F. Parrish, Royal West Surrey Regiment (Queen's), has fallen in action. He enlisted in November 1914 from the Barnet branch of Boots, Ltd.

RICHARDS.—Second-Lieutenant Robert Ingram Richards, London Regiment, was killed in action in France on October 26, aged nineteen. Lieutenant Richards, who was the eldest son of Mr. H. Richards, chemist and druggist, Blandford, joined the Army at the age of seventeen, and was given his commission recently. He was shot through both lungs while taking part in a charge, and died the next morning.

SHARLAND.—Second-Lieutenant F. J. Sharland, R.F.C. (eldest son of the late Mr. F. C. Sharland, Auckland, New Zealand), was killed in action on October 24.

SMITH.—Private Joseph Smith has died in hospital in England as the result of wounds, aged thirty-two. Prior to the war he was on the staff of Joseph Crosfield & Sons, Ltd., Warrington.

STEAD.—Private Edmund Stead, Lancashire Fusiliers, was killed in action in France on October 9, aged nineteen. Prior to enlistment he was apprenticed with Mr. S. Hewitt, chemist and druggist, The Avenue Pharmacy, Ashton-under-Lyne.

Personalities.

MR. WILLIAM HANNA, Ph.C., 16 Main Street, Bangor, co. Down, who was last month elected a member of the Council of the Pharmaceutical Society of Ireland, was born at Bangor in 1866, and was educated locally and at the Royal Academical Institution, Belfast. He was apprenticed to Grattan & Co., Belfast, for six years, and remained with the firm for a further fifteen months, during which time he passed the Pharmaceutical Licence examination. Then Mr. Hanna commenced business in his native town, and has built up a successful business. Mr. Hanna is a Justice of the Peace for co. Down, and has filled the position of Chairman of the Bangor Traders' Association. He should be a useful councillor, as representing the views of the practical pharmacist, and having acquired that broad outlook that comes from experience.



MR. W. HANNA, PH.C.

MR. G. A. MCLEAN LEE, Ph.C., The Nelson Pharmacy, 69 Upper Sackville Street, Dublin, who has just been elected a councillor of the Pharmaceutical Society of Ireland, was born in the parish of Strichen, Aberdeenshire, and served his apprenticeship with the late Mr. William Wallace, King Street, Aberdeen. During the five years he was serving his time he attended evening classes in chemistry and botany at Gordon's College. He stayed on with Mr. Wallace as an assistant for about six months, and then went to Edinburgh and took a three months' course of lectures under Mr. Cowie at the Central School of Pharmacy, passing the Minor at MR. G. A. MCLEAN LEE, Ph.C. his first attempt in 1900. He had then the idea of seeing a bit of the world, and was negotiating with a pharmacist in Northern France when he was offered a situation in



Lester's, of Cork, which he accepted. This seems to have decided him to remain in Ireland, as he has been there ever since. In 1905 he was offered the position of manager to the late William Laird, 69 Upper Sackville Street, Dublin, which position he held until about five years ago, when Mr. Laird died, and the business was converted into a private limited company, of which Mr. Lee became managing director. Two years ago he was elected to the Committee of the Dublin Retail Drug Association, acting as Vice-President the first year and as President last year. It is to his connection with this Association that Mr. Lee contributes his election to the Pharmaceutical Council.

COUNCILLOR HENRY AYRE, chemist and druggist, High Street, Poole, is chosen Sheriff of the borough.

MISS MARGARET MARTIN, Ph.C., has been appointed by the Bolton Guardians dispensers at their Fishpool institution.

MR. JOHN J. WITTEN, Hendon Road, Sunderland, has recently been installed Worshipful Master of the Thornhill Lodge, 3216.

MR. J. BEETHAM WILSON, chemist and druggist, Dorking, has been appointed a Justice of the Peace for the county of Surrey.

ALDERMAN C. H. BURGE, manufacturing chemist, has been asked to retain the Mayoralty of Kingston-on-Thames for a sixth year.

MR. RICHARD FITZHUGH, Ph.C. (Fitzhugh & Carr, chemists, Nottingham), has been appointed a Justice for the borough of Nottingham under the Lunacy Acts.

MAJOR C. E. DYSON, J.P., has accepted the Mayoralty of Flint for another year. Major Dyson is in charge of the local depot of the United Alkali Co., Ltd.

COLONEL W. F. WYLEY, D.L., Coventry, Deputy Provincial Grand Master in charge, presided at the annual meeting of the Provincial Grand Lodge of Freemasons of Warwickshire.

THE FOLLOWING CHEMISTS have been appointed members of the judicial authority for the Borough of Blackburn under the Lunacy Acts: Mr. C. A. Critchley, Ph.C., Mr. R. Lord Gifford, Ph.C., J.P., and Mr. William Woolley, J.P. (Woolley & Co.).

MR. G. CLARIDGE DRUCE, M.A., Ph.C., Oxford, has given an account in the "Oxford Chronicle" of how twenty years ago he became possessed of two of the original water-colour sketches of Greek plants which Ferdinand Bauer produced in 1786-87. These, with others of the series, were reproduced in the very rare "Flora of Greece," which was published in ten volumes, the last appearing in 1840. Mr. Druce has himself visited the scenes which Bauer depicted. This summer Mr. Druce has been lucky enough to acquire 131 sepia sketches of scenes made by Bauer in the course of the botanical journey referred to. The drawings measure $17\frac{1}{2} \times 11\frac{1}{2}$ in., and are mounted on boards $20\frac{1}{2} \times 14\frac{1}{2}$ in. Mr. Druce is describing these drawings at a meeting at Oxford, on November 20, of the Ashmolean Natural History Society of Oxfordshire.

A MEMORIAL SERVICE for the late Mr. Albert Edward Holden was held at St. Andrew's Church, Wells Street, London, W., on November 3, at noon. The choir gave a beautiful rendering of an anthem by Goss, and the hymns were "On the Resurrection morning" and "Now the labourer's task is o'er." The service concluded with Chopin's Funeral March. Among the numerous members of the staff of Fairchild Bros. & Foster and other friends present were:

Mrs. Byron A. Long, Mrs. Peter MacEwan and Mr. G. MacEwan, Captain and Mrs. Cameron Stewart, Dr. and Mrs. Pinkus, Mrs. P. J. Burns, the Misses Burns, Miss Mountcastle, Miss F. A. Keene, Miss Maddock, Miss Edwards, Mrs. Seeger and Mr. R. Seeger, Mr. and Mrs. P. Short, Messrs. Newton Crane, H. W. Brooke, G. E. Pearson, G. R. H. Clarke, R. L. Franks, E. F. Listead, G. Pooley, J. Collett-Smith, J. C. Holloway, A. L. Collins, F. A. Rogers, S. L. Scott, G. Hickling, H. Hickey, W. D. Astill, A. E. Warden, R. C. Brown, and Wheeler.

Wills.

MR. JABEZ WILLIAM JACKSON, chemist and druggist, Westfield, St. Helens, who died on August 9, left property of the value of 5,647L 13s. 7d., of which 2,472L 15s. 11d. is net personalty.

MR. RICHARD JOHN SMITH, chemist and druggist, 70 Mill Street, Tredegar, Aberdare, who died on September 14 intestate and a bachelor without parent, left estate valued at 3,745L 8s. 8d. gross, with net personalty 3,621L 4s. 5d. Letters of administration have been granted to his brother, Mr. Jestyne Smith.

Trade Notes.

PACKED HONEY.—Spring & Co., Ltd., Brigg, Lines, who specialise in packed honey, are advertising in this issue.

EUCALYPTUS OIL is one of the essential oils in which Evans Sons Lescher & Webb, Ltd., specialise. See the company's advertisement in this number.

AMAMI PREPARATIONS.—A special discount as a window-display allowance is announced by Prichard & Constance (Wholesale), Ltd., 469 Holloway Road, London, N. 7.

TOZANA HAIR-FOOD.—Tozana Perfumery Co., Ltd., 257 Gray's Inn Road, London, W.C. 1, are carrying out an advertising campaign which is calculated to increase the demand for the Tozana hair-food.

SACCHARIN-TABLETS.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, make a special offer of saccharin tablets in bottles of 100 and 200 tablets. The tablets are supplied of guaranteed strength. The announcement will be found on the back page of the Coloured Supplement.

SUGAR-REGISTER.—The Glasgow and West of Scotland Chemists' Association has published a sugar-register which provides a ready means of keeping an account of sugar received and the uses to which it is put. The register, which consists of ruled pages divided into columns with suitable headings, sells at 1s.

RAILWAY MAP OF IRELAND.—Johnson Bros., distributing agents, Great Ship Street, Dublin, send us a railway map of Ireland which they have produced. It is a large wall map printed in colours, mounted on canvas, and varnished. The feature of this useful map is that every railway station in Ireland is marked on the map, and the various railway lines are shown in distinguishing colours.

CHANGE OF TITLE.—The Standard Tablet and Pill Co., Ltd., Hove, will in future be known as The Standard Tablet Company, Ltd., the change of title having been sanctioned by the Board of Trade. The activities of the company have been of late years extended to the manufacture of capsules, perfumery, soaps, and other toilet-articles, and it was thought that the old title was somewhat misleading.

SYNTHETIC PERFUME OILS.—We have been examining two fine samples of synthetic perfume oils manufactured by Wright, Layman & Unnay, Ltd., 44 to 50 Southwark Street, London, S.E. The oils are patchouletoil, a substitute for natural patchouli oil, and sachettoil, a base for sachet-powders. Patchouli oil is at the present time worth 105s. to 110s. per lb., and as patchouletoil costs 3s. 6d. per oz., it is obvious that there is considerable inducement to substitute the synthetic for the natural product—that is, always considering whether the odour is true, as it is in the present case. The sachettoil is delightfully reminiscent of sachet-powders, and forms a true basis-odour for this class of perfumery. We have referred to nerolettol before, and it is pleasant to find our verdict confirmed as to its nearness to natural neroli oil. One of the company's customers writes:

"I have been experimenting for years to perfect my own de Cologne, and have tried all grades of genuine neroli and many neroli substitutes. As a result I can confidently pronounce your nerolettol to be easily first as to synthetics, and superior to all grades of genuine neroli except the very finest. It is not as strong as some others, but is more delicate and true to the flower."

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

174/65. "Koh-i-noor" tooth-brush:	176/68. "Pitglandina"
175/69. "Storostal."	178/42. "D" liquid metal-polish.
175/3. "Astratic" solution.	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:	
"Amami" shampoo-powders,	Little's Oriental cream, 160/36
151/36 and 172/30	London and Paris Perfumery Co.'s products, 139/13
Ambrane, 155/11	"Paramol," 133/12
Benson's digestive tea, 168/21	Parkinson's pills, 148/62
"Bismag," 151/36	Wrapping and folding machinery, 165/32
"Dyola" dyes, 139/34	
Earl's pepsine, 149/60	

Observations and Reflections.

By Xrayser II.

The Second of the Progressive Pharmacy Pamphlets

(with which you dealt last week) demonstrates as perhaps no single utterance has hitherto done the need for a reformed pharmaceutical service in the Army. The present system is briefly described, and its actual working is shown by a number of extracts from letters of pharmacists with a knowledge of the Royal Army Medical Corps, in which the anomalies, not to say absurdities, which result from it are vividly set forth. The root of the evil is the rigid adherence of the Army authorities to the claims of rank and seniority of service, and their inability to adapt themselves to changed conditions. Methods that were unsatisfactory even in the old days are pitifully inadequate now, when armies are counted by millions, and all the resources of science and the skill of men specially trained in every department of knowledge are demanded for the treatment of the sick and wounded. That the typical military officer—perhaps the worst business man in the world, and the least open to unfamiliar ideas—should be able to adjust his old machinery to these new demands was past hoping for. The pharmacist is a new phenomenon in the Army, and it is only by accident that a fortunate individual here and there finds his proper place and function in it. The proposals the pamphlet makes for securing a reform of this haphazard treatment of pharmacists are, I fear, too sensible to find acceptance in the proper quarter, but that is no reason why they should not be urged with all our force.

Other Branches of the Public Service

are dealt with in the pamphlet in an equally cogent manner, but it is to its conclusions that I would call special attention. Why have we failed to secure a better place in these Services? Because (we are told), while science is the basis of British pharmacy, trade is largely its superstructure. That this is inevitable in existing circumstances is admitted, but while pharmacists, as such, are only sufficiently educated to satisfy the requirements of their ordinary business, they cannot reasonably hope for any other status. The present "Minor" may be enough for the rank-and-file; what is needed is the provision of steps by which all who wish to do so may rise to a higher level of scientific attainment, fitting them for any duties that can be demanded of them. Meantime those who "crush" science for the sake of business are hindering our upward progress and playing into the hands of the multiple shops and stores. I might have put this a little differently, but it is substantially true.

I Share Mr. Beilby's Opinion

that "highly deprecate" was not a happy phrase to use in the resolution of the Nottingham Pharmaceutical Association in support of the L.A.E. Tariff proposals; not that I have any doubt as to what was meant by it, but because of what might not unreasonably be read into it. It was used no doubt in the sense of greatly, as when we speak of a person as "highly to blame," but it might also be taken to mean proudly, arrogantly, which presumably was not intended. But the greatest infelicity of this curious resolution occurs in clause (c), which is really ambiguous. It reads: "That at the same time we have no wish to discredit the opinions expressed by any chemists that they should obtain better terms than those proposed by the Pharmaceutical Society, and that this (?) should be used as an argument in support of the very moderate terms asked for by the Society from the National Insurance Commissioners." What does the demonstrative pronoun refer to? Grammatically, to the wish (or no wish) of the Association, but surely a wider reference was intended. Again I agree with Mr. Beilby: "We might as well say what we really mean." Unfortunately, Mr. Eberlin did not give the meeting a very clear lead, and his subsequent reference to the Progressive Pharmacy Club proposals was quite out of date.

The Venereal Disease Act

forbids the treatment in scheduled areas of certain diseases by any but qualified medical practitioners, but it does not define treatment. Turning to my dictionary, I find that in this connection treatment means "management in the application of remedies; medical or surgical application or service"; and in the Act referred to the term, though, as I say, not defined, appears to be used in accordance with this definition. It is used as on a par with prescribing and advising, with recommending and holding out remedies, and with offering to treat—that is to say, surely, to undertake the cure or relief of the diseases in question. And although the control of the supply of remedies is stated to be one of the objects of the Act, I cannot find a word in it forbidding us to sell any article that is actually asked for. I have therefore been surprised to read statements from authoritative quarters to the effect that by supplying remedies not prescribed by a medical man we may be rendering ourselves "liable to treatment," unless liability to prosecution is what is really meant. We are told, too, that when we are in doubt we should be guided by the intention of the Act, but even in scheduled areas the intention is not altogether clear. What is clear is that both in these areas and elsewhere we may, unless very careful, get, quite innocently, into trouble. And in face of the odium attaching to the charges that may be brought against us, it may prove impossible to clear ourselves, however innocent we may be. I am glad to have found, since the above was written, that you agree with me on the main point. I refer to your reply to "Manxman" (C. & D., November 3, p. 52).

Thos. Kerfoot & Co.'s Letter

presupposes several things, some of which about aspirin cannot be true, and all of which are disputable. How many British users of aspirin know that it was originally a German article? Why should the reputation of the German article increase with the lapse of time in which the British make has established its claim to equality with it? Do your correspondents really expect the war to last so long that when it comes to an end aspirin would but for its use by us have been forgotten?—an appalling supposition. And, again, do they really fear that British makers will use the title aspirin to disguise the inferiority of their preparations?—a supposition I would rather not characterise. There may possibly be some advantages in the use of new terms, but while they are used as synonyms for old ones, the originators of the latter have an advantage in any attempt to reintroduce their own article, which is lessened when its name has become common property. And will not the patriotic reasons for preferring British goods continue to operate for a good many years after the war is over?

The Organisation of Industry

by means of Trade Associations controlled by Government offers, says Mr. Ernest J. P. Benn, in his little book "Trade as a Science," the only sure hope of holding our own in the commerce of the world after the war. Our place in world-commerce depends upon our export trade, and this can only be maintained, in the face of such foreign competition as we have to meet, by Associations similar to those which are common in Germany, the United States, and elsewhere, but are not often found in our own country. The English trader has been taught to rely upon individualism as the greatest of trade forces, and has won his position mainly by this means; but times have changed and methods must change with them. No single firm can successfully compete with such vast organisations as the German Kartelle, whether in production or distribution (which together make up the whole of trade); association must be met by association. This necessity, at least so far as export trade is concerned, seems to be demonstrated, and to the objection that it would mean the setting-up of "trusts and combines such as have secured to themselves very undesirable meanings," Mr. Benn opposes a scheme of Government control which would restrict them to the foreign market.

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Editorial Articles.

Enemy Trade-marks in Australia.

An interesting development has taken place in the practice of the Australian Government in regard to enemy trade-marks. As is well known, the policy at first adopted differed from that applied in this country to enemy trademarks. It was the system of "cold storage" by which the marks registered by enemies were prohibited from being used except by persons who obtained a licence. It was not at first recognised that this method is exactly

what the German owners most desire : it suited them splendidly, as the marks were being kept inviolate until the return of peace, when a vigorous advertising campaign would re-establish them with the public. Now, however, by an Order dated July 20, 1917, of the Solicitor-General of the Commonwealth, the registered trade-marks aspirin and lysol have been "avoided" as from July 23, 1917. Further, it has been ordered that the rights of the persons who were permitted by order to use the said trade-marks have been revoked. Aspirin was registered in 1906 under No. 829 in the Commonwealth Register of Trade-marks in the name of Farbenfabriken vormals Friedrich Bayer in respect of pharmaceutical products, and lysol by Schülke & Mayr, No. 1889, in 1906, covering disinfectants. The persons in whose favour the aspirin mark was suspended, and whose rights are now revoked, are Arnold Nesbit Macnicol, Elsternwick; George Richard Nicholas, Windsor (revoked as from July 23); Harry Wolf Shmith, St. Kilda (revoked from March 22, 1916). In the lysol mark the manufacturers affected by the revocation of their rights to use the word are Evans Sons Lescher & Webb (Colonial), Ltd., London; Jas. McGirr, Parkes, N.S.W.; Pearson's Antiseptic Co., Ltd., Sydney, N.S.W.; Harry T. Pipson, Sydney, N.S.W.; and Wm. Cooper & Nephews, Berkhamsted, England. The powers taken in Australia under war emergency legislation were primarily exercised by suspending all alien-enemy-owned trade-marks in favour of—

(a) The Minister of State for Trade and Customs, and

(b) Such persons as might be from time to time approved by the Attorney-General upon such terms and conditions as he thought fit.

The regulations made under the emergency Act indicated that applications for the suspension of alien-enemy-owned trade-marks would, as in the United Kingdom, only be granted, as a general rule, where trade-marks were—

(a) Names of patented articles and a licence had been granted under the patent.

(b) The only practical names of an article manufactured under an expired patent.

(c) The only practical names of articles manufactured in accordance with a known process or a published or well-known formula.

Over five hundred alien-enemy-owned Australian Commonwealth trade-marks were forthwith suspended in favour of the Minister of State for Trade and Customs, and their employment in trade was peremptorily banned, a short notice only being given for disposal of any stocks in hand. Where applications were made for their use, terms and conditions were imposed if the applicants succeeded, and a few licences were granted. The licensees had to submit their licensed products to official test, and of course the result of the test was employed as a laudation for new goods under a well-known alien-enemy-owned name. The authorities have evidently discovered that a serious mistake was being made in regard to trade-mark licences, for such licences have now been revoked, and, as stated above, two alien-enemy-owned trade-marks—aspirin and lysol—have been avoided. Again, therefore, the Australian Commonwealth appears to be coming into line with the trading instincts of the Mother Country. It is apparently realised that the suspension of an alleged trade-mark consisting of the name "Aspirin" is unsound. It is to be hoped that all unfair monopolies which are based upon the registration by alien enemies as trade-marks of chemical names which have been associated with expired or revoked patents will now cease—by the avoidance of all of them. Taking the well-known salvarsan trade-mark as a further instance, is not the test of the matter to be found in the result of an inquiry as to whether or not a sole right of manufacture of the drug ever existed in Australia? There were no Australian patents. It was therefore open to anyone to make the product there, and, in the absence of a legal prohibition to make the chemical, there can surely be no doubt that any Australian manufacturer or importer had the right to the use of the name which has become indissolubly associated with it throughout the world, and should be equitably maintainable as a "monopoly" term only in those countries in which it is patented, and there only so long as the patent-grants are in force.

Nux-vomica Seeds.

It will probably be within the recollection of manufacturers of strychnine in this country, as well as of wholesale druggists, that in 1913 some nux-vomica seeds were imported to London from Burma (see *C. & D.*, April 12, 1913, p. 56) which on assay were found not to contain either strychnine or brucine. Why they were exported to this country was naturally rather puzzling. The mystery is now solved in the recently issued "Kew Bulletin" (Nos. 4 and 5), in which the Assistant-Director, Mr. A. W. Hill, M.A., has described the plant that yields them as a new species hitherto not discriminated. It appears that the *Strychnos Nux-vomica* does not occur in Burma, but that the new species, which Mr. Hill has appropriately named *Strychnos Nux-blanda*, has hitherto been mistaken by local botanists for *Strychnos Nux-vomica*, so that the seeds were evidently sent over by the exporter in all good faith as genuine. Indeed, the seeds so closely resemble those of nux vomica in structure that Mr. J. Small Ph.C., now Lecturer on Botany at the School of the Pharmaceutical Society, could find no character to distinguish the two if powdered. To the critical eye the natural seeds of *S. Nux-blanda* have a whiter hue and a rougher hairy surface; the hairs being set (as Mr. Small has shown) at a more obtuse angle to the surface of the seed. It is important to note that this new species, known in Burma as "Khabaung," extends westwards to Manipur and eastwards to Siam, with a variety in Cochin China and Cambodia, so that there is the possibility at any time of the false seeds being mixed with the genuine if coming from districts within these limits. These spurious nux-vomica seeds are an interesting example of how often the investigation of new commercial products serves to lead to the discovery of new botanical species, as in the previous cases of jaborandi, araroba, etc. It is suggested by Mr. Hill that the seeds of other species of *Strychnos* in our Colonies and Dependencies may be worth examination as to their percentage of strychnine, and he mentions that of *S. lucida* and *S. cinnamifolia* as containing a fair percentage of alkaloid. *S. Tieuté*, *S. ovalifolia*, and *S. quadrangularis* are distinctly poisonous species, but their seeds and barks do not seem to have been exploited as sources of strychnine. With regard to nux-vomica seeds, it was shown many years ago by Dunstan that different commercial samples varied considerably in their alkaloidal yield, and Mr. Hill now points out that there are several allied species, such as the Hong-Kong species (*S. angustiflora*, Benth.), *S. donnaeensis*, from Cochin China, and *S. usitata*, with seeds similar to those of *S. Nux-vomica*, whilst *S. ligustrina* and *S. lucida*, in Timor and North Australia, may be worth investigation from the point of view of percentage of strychnine for manufacturing-purposes. So much scientifically and commercially useful information is published from time to time in the "Kew Bulletin" that it is difficult to understand how the present Government could have attempted to economise by stopping its publication a few months ago, when the reduction in the number of Government clerks of doubtful utility (even of one or two) would probably have paid for its publication.

Arsenical Baking-powder.

In the Report of the Medical Officer of the Local Government Board for 1916-17, just issued, there are two items dealt with of more than usual interest to chemists. One is the discovery during 1915 and 1916 of a considerable number of cases of external anthrax, ascribable, according to Dr. Newsholme, to the use of cheap shaving-brushes which have been referred to in the *C. & D.* on various occasions. The second item is an Appendix containing a report by Dr. MacFadden on the work of inspectors of food. In 1916 Sir James Dobbie informed Dr. MacFadden that a sample of phosphate baking-powder which had been sent with a tender for War Office supplies had been found by the Government Laboratory to contain thirty-two parts of arsenic per million. The origin of the

sample was traced, the firm tendering "being merely mixers of the various ingredients which entered into the composition of such baking-powders." In that instance the ingredients were acid calcium phosphate, sodium bicarbonate, and ground rice. Examination proved that all the arsenic was contained in the acid calcium phosphate. This had been obtained from a firm of dealers in the City, who in turn had been supplied by a firm of chemical-manufacturers in Scotland. As soon as the facts were brought to their notice both the baking-powder manufacturer and the dealer took steps to recall from sale all the materials implicated. As a result of these revelations public analysts were asked to examine samples of acid calcium phosphate in their districts. In a large number of districts, Dr. MacFadden reports, arsenic was distinctly found in the samples taken, but in the majority of cases the amounts reported were relatively small, and, as judged by the limit laid down by the Royal Commission on Arsenic Poisoning (1.43 parts of arsenic per million), did not call for special mention. In some fifty cases, however, the amounts reached as much as 400 parts of arsenic per million. One sample contained no less than $4\frac{1}{2}$ gr. of arsenic per lb. (or 634 parts per million). The history and origin of the contaminated materials were traced in most cases to the actual maker of the acid phosphate, and it was discovered that the causes for the most part were primarily due to serious disarrangements connected with the supply of raw material and reductions of staff caused by the war. Sulphuric acid was given as the principal cause of contamination, the reason being the exceptional demand for sulphuric acid by munition-manufacturers, and supplies being difficult to obtain. Most of the acid-phosphate makers, who had previously been accustomed to draw their supplies of sulphuric acid from sources of guaranteed purity, were unprepared for dealing adequately with the impure material. Purifying-plants had been set up in some cases, but in several instances these plants had been inadequately used, and in one or two cases no attempt at all had been made to purify the material from arsenic. Moreover, it was found to be a common practice of manufacturers to dispose of acid phosphate which had turned out on their own analysis to be considerably contaminated, by mixing it with another lot of the product which was free from, or only slightly contaminated with, arsenic. Steps were taken at once to put a stop to this "dangerous and reprehensible practice," as Dr. MacFadden described it, and at each of the factories visited an undertaking was given that this practice of mixing would be discontinued at once, and that no acid phosphate which had not been analysed and found to conform with the generally recognised standards of purity as regards arsenic would be issued. As a result of the inquiries a meeting of the manufacturers of acid phosphate was held in London, at which the best methods of overcoming the technical difficulties with which they had to deal were discussed.

Turpentine.

THERE are but few markets which in these times can boast of speculative activity, but American spirit of turpentine is an exception, and this undoubtedly accounts to a large extent for the enormous rise recorded in the price during the last few months. The advance was particularly violent in October onwards, and the spot price now stands at about 93*l.* per ton, with forward positions commanding a premium of 2*l.* per ton. Not long ago the price was in the neighbourhood of 50*l.*, reaching 60*l.* in the middle of September, and now shows an appreciation of well over 100 per cent. above what might have been considered a full average value in pre-war times. Turpentine oil is, of course, becoming rather scarce on this side, although the London stocks, which are about 19,000 barrels, are still in excess of the low returns at this time last year. Importers do not find it an easy matter to replace stock sold, chiefly owing to the severely handicapped state of shipping, which has had its reflex in the much smaller shipments in recent months. Holders, therefore, are extremely

reluctant to sell in spite of the big rise, their belief being that prices will eventually be forced still higher as the surplus becomes more and more reduced. For the first nine months of the year our imports were only 7,635 tons, against 12,716 tons and 21,745 tons respectively for the corresponding period of the previous two years. Imports from France and Spain have almost ceased, and the stocks still available from these sources are insignificant. At the same time, and owing to much-reduced trade requirements, the home deliveries are small compared with previous years. A considerable business has taken place of late at the rapidly advancing prices, these having eclipsed the highest record in pre-war times by about 30/- per ton. Forward sellers are extremely shy, and the market appears to have a powerful speculative backing, while operations are undoubtedly encouraged by the fact that freightage is extremely difficult. It is probable that a firm grip will continue to be kept on the stocks here, these being considered dangerously low even in proportion to the reduced home consumption. Supplies across the Atlantic have doubtless accumulated to an appreciable extent owing to the handicap to export business, but it must be remembered that there is a growing scarcity of labour in America, partly owing to the diversion caused by the war conditions, and cost of labour has steadily risen. This, therefore, may eventually have a certain bearing upon the course of operations in connection with the next crop. During the first two years of the war the market was not affected a very great deal by the changed conditions, but the position of shipping has now become so acute, and costs of transport are so high, that importers are not disposed to meet forward speculative demands except at what they consider attractive prices.

Alongside of the exciting developments in turpentine oil, similar conditions have been witnessed in rosin, in which some pressure of buying continues to be experienced in a rather narrow market. Sellers, indeed, have become scarce, especially of medium and inferior qualities, and prices have risen considerably, but the scarcity of supplies is pronounced, with not the faintest hope of any appreciable relief for an indefinite period owing to the dearth of tonnage. The receipts so far this year in London were absurdly small against those of the previous two years. As no reliance can be placed upon arrivals in view of the dangerous state of navigation, it is quite possible that, given further pressure of buying, prices may yet be forced to a much higher level. Holders of stocks seem determined to exact their own terms, while the placing of forward orders is becoming more and more difficult. In both commodities America is now the only source of supply that can be depended upon so far as freightage arrangements permit.

Entries in the Cocaine Register.

THE recently published regulation dealing with the Cocaine and Opium Registers which are required to be kept under the Defence of the Realm Act (*C. & D.*, November 3, p. 34) contains the following paragraph :

"He shall not cancel, obliterate or alter any entry in the book or make therein any entry which is untrue in any particular."

What will happen if in making an entry a chemist, by a slip of the pen makes a mistake? He must not correct any mistake, as that would be obliterating or altering an entry; he must not leave it uncorrected, as that would be making an entry which is untrue in some particular; and if he starts writing out the entries afresh he will probably not have made the entries on the day of the sale as required by paragraph (b). If he sells cocaine to Mr. Browne and enters the customer's name without a final "e," the chemist renders himself liable to the heavy penalties under the Regulations, because the entry is untrue in some particular. It is quite time that technical matters such as the drawing-up of these regulations were taken out of the hands of Civil Servants, and entrusted to an advisory Committee

of which some of the members are chemists; also that Parliament resumed its functions as law-maker for the United Kingdom.

American Caustic Soda.

As the production of caustic soda in the United Kingdom has been insufficient to cope with the demands for the manufacture of explosives, the Allies, particularly Britain, France, Italy, and Japan, have been dependent to a certain extent on the United States for what they could spare, and the consequence has been a large increase in the production in that country, but still insufficient to supply all requirements. Such has been the heavy export demand lately that the price in New York at the beginning of October touched 10c. per lb. for 76-per-cent. solid, against a quotation of 4c. per lb. in August 1914, the first month of the war. But now that the position has become acute the U.S. Government has intervened and prohibited further exports except under special licence, when there was an immediate break in prices to about 7½c. per lb. The large export demand having been checked, a damper has been temporarily put on speculation, and shippers who lately had heavy export orders on hand for Japan have complained bitterly. It is estimated that between 1,500 and 1,800 tons of caustic soda is manufactured daily in the United States, the major portion being produced electrolytically in the vicinity of Niagara Falls, where makers are largely dependent upon electric power obtained from Canada, which is now threatened to be withdrawn by the Canadian Government because of home demands. In dealing with this matter the "New York Commercial" points out that—

"Hundreds of thousands of pounds of caustic soda, utilised largely by ammunition-manufacturers in the manufacture of phenol, which product is nitrated and made into picric acid, is being wasted daily by the ammunition-makers, who are allowing it to go to waste into the sewers and streams of their plants simply because up to the present the United States and Allied Governments have not placed their contracts for phenol in sufficient quantities and long enough periods to warrant the ammunition-manufacturers in installing plants for the recovery of the valuable caustic soda lost through chemical transformation."

Naturally, explosive-makers do not wish to incur heavy overhead expenses by installing recovery-apparatus in the present uncertainty, as after the war the probability is that the demand for phenol will fall back to the normal.

Factory First-aid.

AN Order (No. 1067, 1917), dated October 12, made by the Secretary of State under Section 7 (1) of the Police, Factories, etc. (Miscellaneous Provision), Act, comes into force on December 1, requiring the provision at blast-furnaces, copper-mills, iron-mills, foundries, and metal-works of first-aid boxes or cupboards in the proportion of one first-aid box or cupboard to 150 persons. Each first-aid box is to contain at least :

- (i) A copy of the First Aid Leaflet issued by the Factory Department of the Home Office.
- (ii) Three dozen small size sterilised dressings for injured fingers.
- (iii) One dozen medium size sterilised dressings for injured hands or feet.
- (iv) One dozen large size sterilised dressings for other injured parts.
- (v) One bottle of eye-drops, and
- (vi) Sterilised cotton-wool.

Each "First Aid" box or cupboard shall be distinctively marked, and if newly provided after the date of this Order shall be marked plainly with a white cross on a red ground. Other provisions of the Order are in regard to the ambulance-room and ambulance-carriage, which are to be provided where there are at least 500 persons in a factory.

SPARTEINE in aqueous solution becomes turbid when the temperature is slightly raised, this effect becoming more marked in dilute solutions of sodium carbonate.—*A. Valcur*

HAIRDRESSERS are perturbed in regard to the restrictions on the supply of industrial spirit for use in dry-shampoo liquids. The Incorporated Guild of Hairdressers has been asked to send a deputation on the matter to the Ministry of Munitions.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE usual monthly meeting of the Council was held on November 7 at 16 Bloomsbury Square, London, W.C., with the President (Mr. E. White) in the chair. The other Councillors present were the Vice-President (Mr. E. T. Neathercoat), the Treasurer (Mr. W. H. Gibson), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, T. Guthrie, A. Hagon, J. F. Harrington, F. G. Hines, A. H. Jenkin, L. M. Parry, P. F. Rowsell, F. P. Sargeant, H. Skinner, and J. R. Young. The PRESIDENT intimated that, owing to a slight illness, Mr. Keall was unable to be present that day, and that he had sent a letter of apology.

After the minutes had been read by the Secretary, the PRESIDENT read a characteristic letter of thanks from Sir Herbert Jackson. The letter was a graceful appreciation of the congratulations which had been sent from the Council on Sir Herbert's recent investiture.

THE LATE SIR EDWARD EVANS.

The PRESIDENT then paid an eloquent tribute to the late Sir Edward Evans. He said that his death was a great loss to pharmacy and to the drug-trade generally. He was quite sure that everyone connected with the trade shared the regret that had been so universally expressed regarding Sir Edward's death. He was an able man in the world of business, politics, and affairs, and he seemed to be on terms of personal friendship with everyone he met. He was one of the most genial of men, and seemed to elicit sympathy from even political opponents, with whom he apparently found many points in common. He was a most adaptable man, for he had had the pleasure of coming in contact with him in serious affairs and also in his hours of recreation, and he was just as much in his element in play as in serious work. He was President of the British Pharmaceutical Conference during 1911, and he had a personality which was almost unique. He was sure the Council would desire to send expressions of regret to his family on his untimely death. This was unanimously agreed to.

ELECTIONS AND RESTORATIONS.

There were no questions, and the Council then proceeded to elect a number of members and student associates. Two persons were restored to the Register of Chemists and Druggists, and there were thirteen persons restored to the Society.

CORRESPONDENCE.

The Northumberland Association forwarded a series of resolutions dealing with the metric system, the position of pharmacists in the Army, and the institution of a curriculum for the Society's examination. The first resolution was referred to the School Committee, the second to the Committee which is dealing with Army matters, and "the Council is committed to the curriculum," as the PRESIDENT remarked.

A resolution was forwarded from the Liverpool Chemists' Association supporting the Society in negotiations with the Insurance Commissioners and deprecating the interference of irresponsible bodies.

The Derby Chemists' Association pledged themselves to support the Council in its action to obtain better conditions for panel chemists.

The South-West London Pharmacists' Association and the Glasgow and West of Scotland Association each forwarded resolutions deprecating any attempt to alter the present right of qualified chemists to use the title "chemist."

The Oxford and Cambridge Examination Board asked the Society to accept for registration purposes their School Certificate examination. It was pointed out that the Society already accept the Senior and Junior certificates. This appears to be an intermediate certificate, and it was proposed by Mr. HARRINGTON, seconded by Mr. HINES, and unanimously agreed to, that the Society accept the School Certificate examination as suggested.

A letter was also read from the representative of the Conjoint Board of Examiners asking that a representative of the Pharmaceutical Society should be, as usual, appointed to the Board. The President had previously acted as representative, and on the motion of Mr. ROWSELL, seconded by Mr. GUTHRIE, the President was asked to continue as a representative, and a contribution of ten guineas, as before, was voted to the fund.

The North-East Lancashire Association sent particulars

of a resolution which had been forwarded to the Prime Minister supporting the idea of the establishment of a Ministry of Health.

Mr. Melhuish, who was a Bell Scholar last year, but was unable for military reasons to go on with his Major course this year, sent a letter of thanks to the Council for allowing him to postpone the course until a more convenient time.

FINANCE.

The Secretary then read the report of the Finance Committee, and the financial statement, summarised as follows, was submitted:

The receipts of the general fund since the last Committee-meeting amounted to 1,198*l.* 17*s.* 5*d.*, made up as follows: Penalties and costs, 37*l.* 19*s.* 4*d.*; "Pharmaceutical Journal" and publications, 24*l.* 0*s.* 10*d.*; bank interest, 10*l.* 1*s.* 8*d.*; subscriptions, 75*l.* 12*s.*; registration-fees, 96*l.* 12*s.*; restoration-fees, 1*l.* 1*s.*; ground-rent, 103*l.* 2*s.* 6*d.*; School of Pharmacy, 849*l.* 13*s.* 5*d.*; Pharmaceutical Committees, 14*l.* 8*s.*. After deducting payments ordered at the last meeting, amounting to 1,632*l.* 11*s.* 10*d.*, there was a balance of 144*l.* 0*s.* 5*d.* on hand. The total amount passed for payment was 1,016*l.* 3*s.* 10*d.*. The balances on the Benevolent Fund were: Current account, 968*l.* 3*s.*; donations account, 937*l.* 3*s.* 9*d.* Orphan Fund, 126*l.* 1*s.* 1*d.*

The TREASURER, in moving the adoption of the report, congratulated the Council on the satisfactory condition of the accounts, particularly of the Benevolent Fund. Mr. HARRINGTON seconded, and the report was adopted.

BENEVOLENT FUND.

The Committee of this Fund recommended the payment to five persons of a total amount of 87*l.* 10*s.* In moving the adoption of the report, Mr. BILSON stated that the Committee had been approached by the Blinded Soldiers' and Sailors' Fund with regard to a contribution. The Committee discussed the matter thoroughly, and everyone was, of course, in sympathy with the objects. It was thought inadvisable to turn it down altogether, and they recommended that the Editor should be asked to print a sympathetic letter in the "Journal" and to indicate that he would receive subscriptions. Mr. Bilson also intimated receipt of the following: Legacy, Miss Louisa Stammwitz, 160*l.*; Donation, Arthur H. Cox & Co., Ltd., Brighton, 5*l.* 5*s.* Special contributions were also received from: West Staffordshire Chemists' Association, 10*l.* 10*s.*; South-West London Pharmacists' Association (collecting-box), 3*l.*; Sunderland Pharmacists' Association, 2*l.* 10*s.*; Southport Pharmacists' Association, 2*l.* 2*s.*; Preston and District Association of Pharmacists (collecting-box), 1*l.*; A. E. King (Norwich), 1*l.*; S. Bastow (Chichester), 10*s.*; F. Hindle (Preston), 6*s.*; Newcastle and District Pharmacists' Association, 5*s.*

The report was adopted.

LIBRARY COMMITTEE.

The report of this Committee, read by the Assistant Secretary, stated that the school and research laboratory staffs had reported progress, and the attendance was so great that the classes had been divided into two. The Committee suggested advances in salary to the senior, and junior laboratory assistants. The lessees of the Society's property at 5, 6, and 7 Paddington Green had written with regard to the continuation of the lease, and after due consideration the Committee came to the conclusion that the request made should be agreed to. Repairs and renovations during the past four months amounted to 82*l.* 5*s.* 10*d.* The course of microbiology had not been commenced, the entries being so few.

The PRESIDENT, in moving the adoption of the report, explained that of the two lessees of the Paddington Green property, one had died and the remaining partner asked if he might be allowed to carry on the lease as before. This it was considered in the interests of the Society to agree to. With regard to the large sum which had been spent on repairs and renovations during the past four months, he explained that it was difficult not only to get work done, but also to get accounts sent in, and that this sum included 50*l.* for the annual cleaning. As to the bacteriological laboratory course, there were only three prospective students, one of whom was quite prepared to start work, and had paid fees, but the other two entries did not materialise. To carry on the course it would be necessary to provide microscopes costing about 20*l.* each. He thought that it was inadvisable to go in for any large expense in these times, and he suggested that one microscope which they had could be adapted to the purpose and that all three students could make use of it. Dr. Burnett, however, would not agree to this, and

said that if three microscopes were not provided he could not undertake the course. Therefore the course had to be abandoned.

The report was adopted.

GENERAL PURPOSES COMMITTEE.

The report of this Committee was next considered, the first thing taken into account being the Local Associations' Executive Committee. The items in this particular case included the reception of the report of the deputation to the Commissioners regarding the Tariff proposal for 1918; an analysis of the Memorial presented to the Committee at the meeting on October 12; and the consideration of the Vice-President's Memorandum on the reorganisation of the Local Associations Executive Committee. There was correspondence from the Gloucester Chemists' Association, the Nottingham Pharmaceutical Association, and the Manchester Pharmaceutical Committee expressing confidence in the L.A.F., and their proposals for 1918. There was also a communication from the Proprietary Articles Trade Association regarding the supply of infants' foods through Mothers' Aid Societies. Other points the General Purposes Committee had to consider were the report of the Sub-Committee suggesting names of suitable examiners for England and Wales, a report from the President on the Informal Conference with the Institute of Chemistry respecting the title "chemist," reports respecting the status of pharmacists in the Army, on the preparation of the B.P.C. Supplement, 1917, and a motion by Mr. Hines which is to be brought up at the next meeting.

The adoption was moved by the PRESIDENT, who said that instead of appointing three new examiners, the number, owing to their being so few candidates, had been reduced to one. With regard to the discussion on the title "chemist," he wanted to assure critics that the Council were quite alive to the situation; they knew what their rights were and how to maintain them. There are a lot of people throughout the country who do not know the situation, but when it is explained to them (as he has explained it on various occasions recently) their views quickly change. He was of opinion that this question should be settled with a view to public policy and public utility and by friendly compromise. It had been suggested that he should attend the meeting convened at Manchester with the view of securing a charter for an Association embracing only those who could call themselves chemists. He would attend that meeting and re-define the views of the Society on the matter. The Addenda to the Codex would, he hoped, be issued very shortly, and would act as a presumptive standard for the articles affected by the recent regulations. It would help towards uniformity in the dispensing of prescriptions and to obviate legal troubles likely to arise out of these changes.

THE LOCAL ASSOCIATIONS EXECUTIVE.

Mr. HINES then moved:

That, in accordance with the resolutions of the Conference in 1915, immediate steps—failing a convocation of a new Conference—be taken for re-election of the Local Associations Executive based on the pricing areas. In moving his resolution, Mr. Hines suggested that reforms should come from within. The discussions that had taken place on the subject of N.H.I. terms for 1918 had made it clear that the L.A.E. was a played-out force. When the Executive made a report to the Council, the Council handed over this report to various Committees to be dealt with. These Committees, sooner or later, united, in a way, to compile a further report for the district Committees, who, in their turn, united to draw up still another report and hold a Conference. Thus it happened that there was a lot of "pothe" but no representative Committee entitled to speak and act with final authority. He pointed out that the Sheffield meeting asked for direct representation from the pricing areas, and that feeling in the N.E. area ran strongly in the same direction. This was evident in letters to the journals from Messrs. Whitfield and Chapman, and also from Mr. Flemming. In Mr. Flemming's letter [C. & D., October 27, p. 54] one or two sentences might be quoted:

What is the real value of such Conferences? So far as the Tariff is concerned, what did the London Conference achieve that could not just as easily have been accomplished by letter? Each man was there simply to say "Amen" to what his district had decided. I hope to see the day when we shall send representatives and not automats to London: men with power to discuss and modify, if desirable, but where the final issue on matters of vital importance to the craft shall be decided by ballot.

Proceeding, Mr. Hines said a second reason for bringing forward his resolution was that he was on that Council

pledged to territorial representation. Here was an opportunity to put that principle to the test and gauge its value. There was nothing to be lost, and a great deal to be gained. He did not wish to be told that some scheme was being prepared by some Committee. He wanted to know something definite and to have a share in the shaping of such things. The Council would secure a greater feeling of confidence among pharmacists throughout the country if they could show that they were prepared to move earnestly in this matter.

Mr. SKINNER, in seconding, said that no election of the Executive had taken place for two years. There was a feeling that the L.A.E. had got out of touch with pharmacists, and they ought to make a serious effort to get a fresh election.

Mr. DEAKIN moved an amendment to the effect that, as the whole question of reorganisation is under consideration, the motion was inopportune. It was desirable, he said, to formulate a sufficiently large scheme to cope in the various Committees concerned. He had no doubt that the time spent by these Committees would be justified by results, but the Council should not commit themselves to any definite scheme at present.

Mr. GIFFORD seconded the amendment.

Mr. HINES remarked that the amendment adduced no definite reason why the motion should not be passed. He (Mr. Hines) wanted to get away from silly Conferences. (Cries of dissent.)

The VICE-PRESIDENT, speaking with some warmth, said that he could not allow the statements of Mr. Hines and Mr. Skinner to pass without protest. He himself was in sympathy with the election of a new Executive at an early date, and he could outline a scheme if desirable, preferably on the lines of territorial representation. It would be unwise for the Council to be committed on the question of pricing areas. The wording of Mr. Hines's notice of motion was unfortunate, and he distinctly objected to the hard work of the Executive being characterised as "pothe," "played-out force," and "silly Conferences." The L.A.E. had final authority to approach the Insurance Commissioners on behalf of the Pharmaceutical Society. He (Mr. Neathercoat) had toured the country, meeting pharmacists on even terms, and had found every indication of gratitude to the Society. To say that they were "out of touch" with panel chemists was a grotesque absurdity. (Applause.)

Mr. CAMPKIN deprecated heat, and added that he had no very definite views on either resolution or amendment, but thought that the Council was not in a position to do more than express its opinion. Criticism was one thing and construction another. He hoped the basis of the Conference would be reconsidered and that all would approach the subject with an even mind and without recrimination.

Mr. HINES, replying on the discussion, said he had endeavoured to be temperate and moderate. ("Hear, hear," from the PRESIDENT.) He deplored the heat with which the Vice-President had spoken in endeavouring to rebut supposed charges. He was glad to find, however, that he and the Vice-President were in agreement on the question of territorial representation.

The amendment was then put, sixteen voting for it and two against. It was then passed as a substantive resolution.

This ended the public business.

Associations' Winter Session.

Aberdeen.—At the fortnightly meeting of the Aberdeen Junior Chemists' Association in Gordon's College on November 1, Mr. Turner gave a most interesting and instructive address on *Microscopy*. There was a large attendance, and with the aid of a microscope Mr. Turner discussed the mechanism, emphasised the importance, and foreshadowed the possibilities of this wonderful machine. Mr. Andersson (Hon. President) greatly delighted the members with a survey of the values of the microscope in biology and zoology. Both speakers were heartily thanked for their efforts. For next meeting (November 15) a debate has been arranged, "Whether is the commercial or professional training more important to the Young Pharmacist?"

Accrington.—The Accrington and District Pharmacists' Association met on November 1. The President (Mr. J. S. Snell), in his address, briefly discussed Insurance matters, the County Formulary, dispensing for discharged soldiers and sailors, the suggested Ministry of Health, and the Progressive Pharmacy Club. On the proposition of Mr. Hodgson, seconded by Mr. Thornber, it was decided to send a subscription of 3*l.* 3*s.* to the Parliamentary Fund. A

discussion ensued on matters relating to prices, and the "B. & C. P." list was revised to suit local conditions.

Bath.—At the annual meeting of the Bath Pharmaceutical Association on October 23 the following officers were elected for the ensuing session: *President*, H. Norris; *Vice-Presidents*, C. Jenkin and H. C. Broad; *Treasurer*, J. W. Cooper; *Committee*, H. J. Bryant, D. A. Evans, H. W. T. Gedge, J. G. H. Hawes, E. W. Loveless, A. E. Mills, R. H. Moore, E. Rogers, and L. Wilson; *Hon. Secretary*, W. J. Hallett. The Treasurer's report showed a balance in hand of £4. 16s. 6d.

Blackpool.—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held on November 2, Mr. J. Laurie (President) in the chair. In response to the appeal for support of the Parliamentary Fund, all the members present agreed to subscribe, and the President, Secretary, and Treasurer were appointed to collect contributions. A discussion took place on the restrictions imposed by the Venereal Disease Act on pharmacists in a scheduled area, and a list of proprietary medicines which contravene the regulations (in the old packing) was read out. The question of applying for a rebate on the methylated-spirit licences was deferred for a month. The Secretary of the Pharmaceutical Committee informed members that it had been agreed by the Panel Committee and the Pharmaceutical Committee that in all cases where lin. aconiti, lin. belladonnae, lin. camph. ammon., and lin. saponis, either alone or in combination with other ingredients, are ordered in an Insurance prescription, the methylated liniment shall be dispensed and the prescription paid for on that basis, unless rectified liniment is specified. The Secretary was instructed to write to Mr. H. P. Withers, expressing the sympathy of the Association on the injuries sustained by his son, who has lost his arm from wounds received at the Front.

Cardiff.—The Cardiff Pharmacists' Association met at the Angel Hotel on November 1, Mr. Furnival (President) in the chair. After discussion it was decided to support the Parliamentary Fund. Mr. Hagon intimated his resignation as representative on the South Wales and Monmouthshire Federation, and he and the President gave a *résumé* of the proceedings at the last meeting of that body. A letter from the Cardiff Chamber of Trade asked for support for the earlier-closing order, and it was decided to act as requested. A discussion took place on sales under the Venereal Disease Act, and several pitfalls were pointed out. Questions were asked regarding the sale of methylated spirit, and a letter was read from the Secretary of the C.D.A. to the effect that spirit held in stock may be sold.

Dublin.—The Irish Chemists' Assistants' Association (Dublin Centre) met at 38 Upper Saekville Street, Dublin, on November 1—Mr. J. Hogan, Ph.C., presiding—when encouraging reports were received from the various Committees on the strength of the Association, the progress of the early-closing movement, and the satisfactory relations with the Dublin employers. The practical application of the Shops Act in Dublin and the proposed early closing in Pembroke were discussed and action was agreed on.

Hull.—The Hull Pharmacists' Association held a social evening at the Grosvenor Hotel on October 30, under the chairmanship of Mr. L. S. Selle (President), which was attended by a goodly number of members and friends, including ladies. An interesting programme was provided, the chief feature of which was two original poetic stories of mediæval chemists read by Mr. E. Haworth Earle, chemist and druggist. Mr. Bennett proposed, and Mr. Clough seconded, a vote of thanks to Mr. Earle and the other contributors to the programme, which was warmly accorded.

Liverpool.—At the meeting of the Liverpool Chemists' Association on November 7, Mr. W. P. Evans (President), who was in the chair, drew attention to a leader in the "Lancet" commenting on the paper read before the Association on October 24 by Mr. Woolley on "Enemy Patents and Trade-marks." He said he had received commendatory messages from London and many other correspondents concerning the lecture, which had aroused great interest all over the country. Members not present missed a treat. The President then called on Mr. Martin S. Hughes, who gave a lantern-lecture on a camping-club tour in Ireland. Mr. Hughes said such visits to Ireland helped to remove misunderstandings, which ought not to continue. A hearty vote of thanks followed for a delightful talk and photographs.

London.—A meeting of pharmacists of the Borough of Hammersmith was held under the auspices of the Western Pharmacists' Association at 54 Uxbridge Road, W., on November 6, Mr. W. Shirliff in the chair. A proposal

for the earlier closing of pharmacies was negatived, the meeting being of opinion that closing before 8 P.M. was not possible. Other items that were discussed included mid-day closing, surplus stock list, the cocaine regulations, glycerin and sugar substitutes, and the present prices of drugs.

National Association of Opticians.—A Council-meeting was held at Manchester on October 25, Mr. R. Chalmers (Sunderland) presiding. The Secretary's quarterly report showed continued progress, and, with the balance-sheet, was adopted. The death of three members was reported, and three new members and two associates were elected. A general meeting is to be held in Nottingham towards the end of November.

Newcastle.—The annual meeting of the Newcastle-upon-Tyne and District Pharmacists' Association was held on October 31 in the Church Institute, Hood Street, the President (Mr. J. F. Simpson) in the chair. All the officers of the Association were re-elected, except that Mr. A. D. Hunter, 268 Westminster Road, was elected Hon. Junior Secretary, *vice* Mr. Stephenson, whose resignation was accepted with regret. The Senior Secretary (Mr. S. W. Bowness), in his report, dealt with the work of the Pharmaceutical Committee during the previous twelve months, and in conclusion made some strong remarks *re* the apathy of some pharmacists to panel and Association meetings. The President, in an able address, dealt with many things of pharmaceutical interest, including the higher education of youths and the supply of apprentices. The next meeting is fixed for November 28, which is to be an open night for the discussion of trade matters.

Society of Chemical Industry.—At a meeting of the Council on October 23, Mr. W. J. A. Butterfield, London, and Mr. E. F. Hooper, Stroud, were elected to fill two vacancies on the Council caused by the resignation of Professor H. E. Armstrong and the death of Mr. R. D. Pullar.—At a recent meeting of the *Birmingham Section*, a discussion took place on the suggested formation of a *British Association of Chemists*. The subject was introduced by Mr. T. F. E. Rhead, M.Sc., and the general trend of opinion was that the matter should be taken up by the Institute of Chemistry or, in the alternative event, that a new body should be constituted.—At the meeting of the Section on November 1, a discussion took place on laboratory methods and appliances. This subject, which appears to have established itself as a fixture, was suggested some time since by Mr. F. H. Alcock, Ph.C., F.I.C.—At a meeting of the *London Section*, held at Burlington House on November 5, Dr. Charles A. Keane in the chair, a paper was read by Dr. F. W. Hay (British Dyes, Ltd.) on *Patent Law in Relation to British Chemical Industry*. Dr. Hay stated that the object of all patent legislation is to encourage industrial development by granting the inventor, by way of compensation for his improvements, a limited period of protection during which he is entitled to use or dispose of his invention. The question arises whether the legal instrument which embodies the grant—*i.e.*, the Letters Patent—is apt to inspire confidence among people concerned with manufacture, and whether it helps the inventor to turn his improvements to account. He contended that, apart from the uncertainty which always prevails in connection with the intrinsic value and future prospects of any invention, the Letters Patent issued does not inspire any appreciable measure of confidence, because it contains no reliable evidence of novelty; in other words, the invention disclosed in a British patent may really be a repetition of what has been invented abroad. This inherent weakness of all British patents might be remedied by a more comprehensive system of preliminary examination as to novelty. The serious anomaly which exists between the attitude of the Patent Office, which considers prior British patents only, and that of the Law Courts, which examine all prior publications, would thus be avoided. Patents relating to chemical industry, and particularly those owned by Germans, do not as a rule reveal adequate description of the invention claimed. They often merely cover an idea, and a prolonged period of investigation by experiment is generally necessary before they can be turned to account. In some cases the patent practically amounts to a permanent monopoly. Some system of verifying the results claimed by examining the invention described in suitable Government laboratories, and insisting, if necessary, on further particulars, would seem advisable. The inventor who has successfully introduced his experiments in manufacture has great difficulty in defending his patent-rights owing to the cumbersome and costly procedure in court. The issue, moreover, is very uncertain, as the decisions rendered in cases connected with chemical industry often involve serious scientific error. A more equitable and less complicated line of procedure would be desirable.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, November 8, 3 p.m.

BUSINESS conditions remain much as previously reported, and with the many restrictions in force there is little hope of any improvement. Values of many items have now reached such a point owing to shortage of stock that the outlay of capital renders hand-to-mouth buying more necessary than ever. This applies particularly to many of the synthetic chemicals and crude drugs, the general demand for which is quiet. Salicylates are weaker in some quarters where stocks are held by importers. Phenacetin is still weak. Benzoates, on the other hand, are slightly firmer. Acetanilide is firm at the recent advance, and bromides are steady. Among drugs Canada balsam is dearer, and tolu is practically exhausted on the spot; copaiba is firm. Liquorice-root is still very scarce; juice is quiet. Turmeric is dearer, and ipecacuanha is firm. English castor oil is practically unobtainable. Eucalyptus is firm, and likely to go dearer. Lime oil is flat, and true sassafras oil has further advanced. Among spices, seeds, etc., cassia lignea is firm. Cloves and pepper are quiet. Fenugreek and canary-seeds continue to advance. Shellac and turpentine are much dearer, with a large speculative business.

Higher	Firmer	Easier
Arsenic		
Balsam canadæ	Benzoates	Arrowroot
Balsam tolu	Eucalyptus oil	Citric acid
Canary-seed	Fenugreek-seed	Cloves (Zan.)
Cassia lignæa	Hydrastis	Phenacetin
Hen-yolk	Pimento	Salicylates
Mace	Senega	
Sassafras oil	Sulphonial	
Shellac		
Turmeric		
Turpentine		

Cablegram.

NEW YORK, November 8.—Business is fair. Balsam tolu is dearer at 48s. Benzoates are also dearer, sodium benzoate having advanced to \$2.25, and benzoic acid to \$2.50. Morphine sulphate has been reduced to \$12.80, and cocaine to \$8.80 per oz.

AMIDOPYRIN is rather scarce at from 72s. to 75s. per lb.

ANISE.—Russian just arrived is quoted 75s. per cwt. c.i.f. terms.

ARROWROOT.—The sales include 300 barrels St. Vincent at from 5½d. to 5½d. for ordinary to good manufacturing on the spot.

ARSENIC has advanced to 140s. per ton for best white refined powder, which price is prohibitive for many purposes. Even at this figure there is little offering. In normal times arsenic only pays in this country as a by-product, but the much higher level of values means an existence to some of the Cornish tin mines which at other times would be glad to be free of the complexity. As showing the rapidity of the advance it may be said that in October 1915 sales were made at 17s. 15s., in March 1916 at 20s. 6d., in June 25s., in August 27s. 15s., in October 27s. 7s. 6d.; in February 1917 38s., in April 47s., in July a great jump to 75s., and in August 75s. 10s.

ASPIRIN is again slightly weaker, with spot supplies offering from importers' hands at from 13s. 9d. up to 14s. 3d. per lb. net, according to quantity.

BALSAM CANADA is dearer at 5s. per lb. net, in cases on the spot.

BALSAM PERU is still very scarce on spot, and stocks appear to be in the hands of one holder only, who asks 19s. 9d. net for B.P.

BALSAM TOLU.—Spot stocks are now practically exhausted; sales have been made at 3s., and to arrive 3s. per lb. net is quoted.

BENZOATES.—The firmer position is maintained, the spot price of benzoic acid being from 14s. 6d. to 15s., and for benzoate of soda from 12s. to 13s. is quoted, as to seller.

BROMIDES are steady, potash being quoted at 6s. 3d. for granular and 6s. 6d. for crystals, parcels afloat offering at 6s. 3d.; sodium is 2s. 6d. to 2s. 9d., and ammonium 4s. 3d. to 5s. net, as to seller.

CAFFEINE.—The nominal value of the pure for home trade remains at 50s., and the makers endeavour to meet requirements at the price. Second-hands offer limited quantities of the pure cyst. at from 58s. to 60s., and the citrate at 32s. net.

CAMPHOR (REFINED).—Japanese is firm, with Japanese 2½-lb. slabs offering at 3s. 6d., and ¼-oz. tablets at 4s. 3d.

CANARY-SEED continues to advance, and is quoted 116s. to 120s. per quarter for fair to good Morocco.

CAPSICUMS.—At auction 119 bales East Indian sold at 42s. 6d. per cwt. for fair medium stalky red.

CASCARA SAGRADA.—According to the monthly statement of drugs, etc., there were no arrivals in London during October, while the deliveries amounted to 24 tons. The stock on October 31, 1917, was 73 tons, against 90 tons in October 1916. Spot value is about 110s. per cwt., but sales have been made at rather less.

CASSIA LIGNÆA is firmer, with sales on the spot of fair selected whole at 77s. 6d., and at the close 80s. is asked.

CASTOR OIL.—No English medicinal oil appears to be obtainable from the pressers, and the supplies of Calcutta have become so meagre that the maximum prices are inoperative. The nominal value of Calcutta seconds is 9d. in Liverpool, but probably 1s. per lb. would have to be paid for any retail lots available.

CHLORAL HYDRATE is offered on spot at 9s. per lb. net in bond, and at 8s. 9d. to arrive.

CLOVES have been quiet throughout, with sellers of fair Zanzibar on the spot at 1s. 10d. At auction 91 bales Zanzibar clove-stems sold at 7d. to 7½d. per lb.

COD-LIVER OIL.—The Bergen market remains without a quotation. Limited quantities of finest medicinal Norwegian (1916) oil offer on spot at 420s. per barrel net, and finest non-freezing Newfoundland at 15s. per gal. net.

COPAIBA remains firm, Central American (B.P.) offering at 5s. 4d., filtered Para at 3s. 4d. in cases, unfiltered Maranhão in casks at 5s. 4d., and filtered in cases 5s. 9d. per lb. on the spot.

CORIANDER-SEED.—At auction 393 bags were bought in, comprising Morocco at 85s., and Bombay at 60s.

CREAM OF TARTAR is practically unobtainable on the spot, the scarcity having become acute through contracts having been defaulted by one of the large Italian makers.

CREOSOTE (BEECHWOOD) can be had at from 13s. 9d. to 14s. per lb. net.

CUMIN-SEED.—The area planted in Malta during the year 1916-17 was 923 acres, against 2,597 acres in 1915-16. The yield amounted to 3,725 cwt., against 13,795 cwt. in the previous year.

EUCALYPTUS OIL is rather firmer in view of the winter demand; sales of 70 to 75 per cent. (B.P.) eucalyptol have been made at 2s. 11d. to 3s. per lb. on the spot. Arrivals of fair quantities have taken place, but they are mostly for delivery against contract.

FENUGREEK-SEED is again dearer, 46s. per cwt. having been paid for Morocco on the spot.

FORMALDEHYDE remains at from 127s. 10s. to 130s. per ton net on spot as to seller.

GINGER.—Quiet at auction; 812 packages Cochin and Calicut offered, and 114 sold at and since the sale at 65s. for brown rough Calicut; sound was bought in at from 72s. to 74s.; 100 bags Sierra Leone were bought in at 65s.

HONEY.—In Liverpool the sales include 75 casks Jamaica at from 102s. 6d. to 115s. per cwt. for amber to pale amber, and 80 barrels Chilian were sold at auction at from 99s. to 104s. 6d.

HYDRASTIS is firmer at 29s. per lb. net on the spot.

IEPECACUANHA remains firm with further sales of the Matto Grosso at from 12s. to 12s. 3d. per lb. Cartagena is now very scarce, with small sales at 11s. 6d. and 12s. asked.

JALAP has been advancing in America, where supplies are short. The London drug statistics show a spot stock of about 200 bags, but those in a position to judge believe the stock to be considerably less; values are from 1s. 5d. per lb. upwards.

LAVENDER OIL.—Spike is dearer at about 5s. for French and 3s. 9d. for Spanish.

LIME OIL.—West Indian distilled is flat at 7s. per lb., and hand-pressed is about 16s.

LINSEED OIL is firm at 58s. per ton net, spot, naked, in barrels.

LIQUORICE JUICE is quiet, and at present high prices business is hand-to-mouth. Block of good quality is worth about 285s. per cwt.

LIQUORICE ROOT remains excessively scarce, very common natural offering in limited quantity at 65s. to 70s., and cut decorticated at 115s. to 120s. per cwt. on the spot.

MACE.—Dearer at auction, four cases fino bold palish Java selling at 4s. 2d. to 4s. 3d., and two cases bold but wormy Penang at 4s. to 4s. 2d.; 20 cases wild Bombay sold at 7s. 3d. to 8s. 4d.

MALE FERN EXT.—Genuine is offered at 30s. per lb. net on spot.

METHYL SALICYLATE remains easy at from 4s. 6d. to 4s. 9d. per lb., according to quantity. Genuine wintergreen oil is quoted at from 12s. 9d. to 13s. net, as to seller.

PARALDEHYDE is rather scarce at 15s. on the spot and at 14s. 3d. to arrive.

PEPPER is quiet but firm, with sales of fair black Singapore at 1s. 2s. 3d.; fair Tellicherry is quoted at 1s. 4d., fine 1s. 4s. 2d., and Aleppo at 1s. 3s. 4d. Singapore white has buyers at 1s. 5s. 2d. fair basis, and Muntok has been sold at 1s. 5s. 2d. to 1s. 6s. 2d.

PHENACETIN has still an easy undertone, with spot prices varying between 48s. and 50s. net, and even less for quantity.

PHENOLPHTHALEIN is offered at from about 75s. to 80s. per lb. on the spot.

PIMENTO.—At auction 500 bags sold at 4s. 4d. per lb., being 4d. firmer; privately, there are further buyers at 4s. 4d.

POTASHES can only be dealt in with a licence obtainable by the buyer, and strict inquiries are made as to the use to which the chemical is to be put. The price of first-quality Montreal is nominal at 210s. per ton, the actual value being a matter of negotiation.

POTASH BICARBONATE can be had in powder in kegs at 2s. per lb. net.

POTASH CHLORATE.—Crystals offer at 2s. 2d. to 2s. 4d. and powdered at from 2s. 4d. to 2s. 6d. per lb., as to quantity.

ROSEMARY OIL.—Spanish is dearer at 2s. 8d. per lb. net.

SAFFRON.—Values of finest new crop Valencia are from 44s. to 45s. per lb. net.

SALICIN.—Makers are unable to give delivery at present, but hope shortly to be in a position to do so.

SALICYLATES. The position remains much as last week, and although the market in U.S.A. has been hardening, some spot importers are "cutting" prices. The value of B.P. salicylic-acid powder is from 6s. 3d. to 6s. spot, and sodium salicylate is 8s., parcels landing 7s. 9d. and to arrive 7s. 3d. net.

An effort to break the market on salicylic acid by big buyers who are also manufacturers has come to light within the past few days (says the *New York Commercial* of October 8). It is understood that these operations are carried on through the process of offering large lots at ridiculously low prices with the understanding that the buyers must take all or none for immediate delivery. The motive is to buy other goods in the outside market at prices fractionally higher than the low figure at which they had previously been offered. Manufacturers report that the market is firm on the basis of \$1.30 per lb. for spot material, and that ton lot orders are being received at these prices daily. The contract market is firm on a basis of \$1.25 per lb., with business fair. Some recent offers of low-priced salicylates have been found decidedly inferior in quality.

SANTONIN.—As notified last week, the price of santonin was advanced to 320s. per kilo. net in lots of at least 50 kilos. in one delivery. For smaller quantities the prices are as follows: For 25 kilos., 345s. net; 10 kilos., 360s. net; and 5 kilos., 375s. net per kilo., without engagement.

SARSAPARILLA.—With higher prices asked in America spot holders want 2s. 3d. per lb. net for Mexican.

SASSAFRAS OIL.—Sales of true American have been made on the spot at up to 5s., with 5s. 2d. net asked.

SENEGA.—Spot sales have been made at from 4s. 3d. to 4s. 4d. net, but 4s. 6d. is now asked.

SHELLAC shows a further considerable advance both on spot and in futures, the sales including usual standard TN Orange quality at from 275s. to 303s., and fine marks up to 360s. Futures include sales of December at from 275s. to 305s., and March 270s. to 304s. The speculative market on Monday was excited, prices advancing 17s. on that day. The October landings of shellac in London were 359 cases and the deliveries 2,925 cases; stock is 30,149 cases, against 59,722 cases and 95,306 cases in November 1916 and 1915 respectively.

SODA CAUSTIC.—Limited quantities from dealers are obtainable at 55s. per ton for 70 to 72 per cent.

SULPHONAL is firmer at 45s. per lb. net for crystals or powder.

TURMERIC is dearer, with sales of Madras finger on the spot at from 57s. 6d. to 60s. per cwt., and Bengal at from 50s. to 55s. Cochin split bulbs have also been sold at from 40s. to 45s. London stock at the end of October was 670 tons, against 1,216 tons.

TURPENTINE.—A good spot business has been done at advancing prices, the market closing on Wednesday evening at 92s. 9d. per cwt., a rise of 3s. 3d. on the week.

VANILLIN is selling in dealers' hands at from 55s. to 56s. per lb. net.

WINE-LEES.—About 1,950 bags in prize (about 100 tons) lying at Newcastle are to be sold by public tender on Wednesday, November 21.

American Drug and Chemical Markets.

New York, October 11.

The markets are active, but it is becoming increasingly difficult to secure supplies for export owing to the Government embargoes.

ACETANILIDE is in heavy demand, second-hands quoting 62c. to 65c.

ANTIPYRIN is easier at \$22.00 per lb.

EPSOM SALT is easier at 3½c. to 3¾c. for U.S.P. crystals.

GLYCERIN.—The export of c.p. is prohibited, and stocks in second-hands are more plentiful.

HEXAMINE is firm at from 68c. to 70c.

JALAP is very scarce, there having been no arrivals; 50c. is quoted in small lots.

LYCOPODIUM.—Arrivals having taken place prices are easier at \$2.20 to \$2.25.

OPIUM is very strong, with no arrivals taking place; gum is quoted at \$30.00.

PHENACETIN is lower at \$9.00 to \$10.00.

QUICKSILVER has declined to \$100.00 per flask.

SACCHARIN.—Demand continues heavy both for home and export, but it can only be partly filled.

SALICYLIC ACID has been in heavy demand for export, but makers are well supplied.

SASSAFRAS OIL.—Genuine is scarce at \$1.10 to \$1.15.

SODA ASH is cheaper at from \$3.10 to \$3.15 per 100 lb.

SODA CAUSTIC has been lowered to \$7.75 per 100 lb. and Bichromate to 23c. to 23½c. per lb. Difficulty of effecting exports is responsible for the decline.

THYMOL is easier at \$16.00 to \$16.50 for crystals.

WITCH-HAZEL EXT. has advanced to \$1.10 per gal. in barrels.

French Jasmine and Tuberose Crops.

The South of France jasmine crop was virtually over on September 20. Owing to the severe cold weather of last winter and the various atmospheric conditions in the spring, during the time the plants were growing, the crop is supposed to be inferior to a normal one. The beds in low ground which were most exposed to the variations of the weather started to bloom towards the middle of August only. This delay brought about a strong demand, and, of course, very profitable prices for producers. As a fact, at the beginning of August, prices reached 3f. per kilo. The blooming thereafter was, however, accelerated by hot and dry weather during the second part of August and the whole of September. Certain beds, especially those situated on the slopes, have even exceeded their output of former years. Unfortunately, the owners during the winter were unable to obtain the required fats, and so found themselves compelled to limit their output of pomades, and had to use the remainder of the yield for the manufacture of concrete essences. The immediate result of this was a certain activity in the works, which were obliged to employ even the most unskilled labour. Speaking in a general way, the pomades are of good quality. This year's crop of tuberoses has been exceedingly defective owing to a serious disease of plant-stalk. Products manufactured with this perfume are dear and rare, and manufacturers were unable to finish pomades already commenced.

Tinnevelly Senna.

The Agricultural Calendar of the Madras Agricultural Department contains the following with reference to Tinnevelly senna: "The history of senna-cultivation in Tinnevelly is one that teems with interest. Its history is of special importance to the ryot who grows it, to the man who adulterates it, to the firm that exports it, and to the Agricultural Department, which aims at improving the lot of the ryot by protecting his interests. Senna (*Cassia angustifolia*) is a small shrub. Its home is Arabia, and knowledge of the medical properties of its dried leaf was introduced into both Indian and European pharmacy by the Arabs. They held a monopoly of this drug only so long as they could market it in a pure state. When they commenced adulterating it with useless leaves of other plants

their trade was lost. India and Egypt then became the most important centres of supply. Watt reports that the purity, the high quality, and low price of Tinnevelly senna placed it in the front rank on the world's purchasing markets. This was only ten years ago, yet in 1914, previous to the outbreak of the great European war, senna-cultivation in Tinnevelly had been almost entirely discontinued. What is the explanation of this sudden fall in the area under senna? The truth is that Indian senna has suffered the same fate as Arabian senna. Indiscriminate adulteration has made the purchase of this senna unprofitable for European markets at any price. Immediately after the war broke out there was an abnormal demand for various drugs to supply the military medical stores. Among these drugs was senna. The price of dried leaf rose rapidly from a few annas per tulam of 20 lb. of dried leaf to 8 rupees a tulam. Many ryots who took early advantage of this rise have made small fortunes. Once more the middleman was tempted to add useless leaves of other plants to the pure senna-leaf so as to increase the gross weight. He increased his temporary profits in proportion. The result is that the price offered for Tinnevelly senna has once more fallen to such an extent that its cultivation is no longer profitable. Instead of getting 8 rupees per tulam the ryot now gets 8 annas only. The Tinnevelly ryot had anticipated high prices for senna for the duration of the war. Had the product been exported in a pure state it is highly probable that substantial profits could still be made; as it is, a considerable acreage is being uprooted owing to the low price the leaf commands."

Arrivals of Chemicals, Drugs, etc.

THE following arrivals have taken place at the Ports of London and Liverpool:

To London.	Oils, fixed: arachis, 5,250 cs.; coconut, unrefd., 3 pkgs.; fish, 350 cs.; herring, 350 cs.
(Oct. 27 to Nov. 2.)	Ointment, 160t.
Acetic acid, 100 cbls.	Opium, 13 cs.
27 brls.	Perfumery: toilet-powder, 997t.
Acetyl salicyl. acid, 4 brls.	Phenolcum, 10 cs.
Alcohol, wood, 7,538 gals.	Potash caustic, 3 drms.
Anise, star, 20 cs.	Potash sulphoguaiaic, 2 cs.
Antimony, cr., 30 tons; reg., 15 tons	Pyrogall. acid, 13 cs.
Belladonna-root, 10 bgs.	Rosin, 29 cks.
Benzolic acid, 4 pkgs.	Saffron, 4 cs.
Bromides: potash, 30 cs.	Salol, 4 cs.
Cachou de laval, 40 cks.	Scopolia-root, 15 bals.
Calumba, 100 bgs.	Seeds (bgs.): annatto, 88; canary, 359; castor, 543; coriander, 649; cumin, 182; lin, 29,432
Camphor, 20 cs.	Senega, 1
Casein, 5,080t.	Soap, toilet, 703.
Chem. prod., unrated, 1 cs. 2 cbls. 20 kgs.	Soda, unrated, 2 cwt.
Chloral hyd., 5 cs.	Sponge, 155 cs. 8 bls.
Cochineal, 20 bgs.	16 pkgs.
Cream of tartar, 20 kgs. 52 pkgs. 20 cs.	Squill, 23 bgs.
Creosote, beech, 10 cs.	Starches (cwt.): 2,101; corn, 8,360; farina, 380; maize, 3,700; potato, 5,239; rice, 1,000
Dental goods, 2,923t.	Talc, 200t.
Drugs, unrated, 157. 77 pkgs. 4 bls.	Tallow, 2,345 cwt.
Dyestuffs, etc., unrated, 4 brls. 4 cs.; indigo, 50 chts.; logwood ext., 55 bals.; myrobolans, 1,663 pockets; tanners' bark, 142 tons	Valerian, 10 bls.
Formaldehyde, 40 brls.	Vanilla, 17 cs.
Fuller's earth, 4 tons	Verdigris, 11 cks.
Galls, 412t.	Wax, not described, 172 cs.
Gelatine, 170t.	Wax, paraffin, 394 cwt.
Gentian, 98 bals.	Cancelled entries: June 27, 115 chts. indigo; May 18, 18,200 cwt. shellac; June 22, 1,200t. gall; July 23, 666 bgs. castor-seed; April 7, casein 950t.; July 9, 168 pkgs. wax.
Guaiacol, 1 cs.	To Liverpool.
Gums (cwt.): acacia, 275; kauri, 236; tragacanth, 30	(Oct. 29 to Nov. 3.)
Henbane, 38 bals.	Acetate of lime, 3,287, bgs.
Lemon-peel, dried, 10 bals.	
Mujol, 267 cs.	
Nuts and kernels (cwt.): arachis, 2,400; copra, 5,000	
Oils, essential, 224 cs. 2 cbls. 7 drms.; anise, star, 75 cs.	

QUICKSILVER.—The "Chem. Zeit." (July 28) states that the Germano-Turkish Mining Co., in Munich has acquired all the mines at present attainable and worth working of the entire known quicksilver in Asia Minor. The company has rented the mines, and has already started to work one situated near Edemisch, in the Province of Smyrna. The German War Metals Co. in Berlin takes over the entire output. In the opening-up of a bed on a mine near Uschak excellent ore in considerable quantities has been found.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

TUNGSTEN WIRE,

used in the manufacture of electric lamps, is not being imported at the present time. British manufacturers are supplying the requirements of the electric-lamp manufacturers.

BEE-FOOD.

The Parliamentary Secretary to the Ministry of Food informed a questioner that the preparation of the medical bee-candy, the sale of which has been sanctioned, is based upon a formula drawn up by experts, and its manufacture has been entrusted to a firm which makes no profit out of the transaction.

SWISS SYNTHETIC INDIGO.

Sir J. D. Rees was informed last week by the Secretary to the Board of Trade that synthetic indigo imported into this country from Switzerland is required to be accompanied by British Consular certificates of non-enemy origin. Inquiries will be made if evidence is forthcoming that enemy-made goods are being sent to this country.

Liquid Gold.

Commander Wedgwood, in the House of Commons on November 1, asked a question in regard to the delay in granting permits for the importation from America of liquid gold, used in the pottery-trade. The Parliamentary Secretary of the Board of Trade said that arrangements are in progress for admitting a limited quantity of liquid gold.

THE DENTAL INQUIRY.

Our Parliamentary correspondent learns that, so far, the deliberations of Mr. F. D. Acland's Departmental Committee, which is inquiring into a variety of questions affecting the practice of dentistry, have been of a consultative nature, and no evidence has yet been taken. Later on, it is understood, witnesses representing the unregistered dentist and other interests will be summoned.

PARTICULARS AS TO DIRECTORS.

In the House of Commons on November 5, Mr. Wardle (Secretary Board of Trade) stated that applications have been made for exemption from the provisions of Section 2 (2) of the Companies (Particulars as to Directors) Act and have been granted in some cases. Applications for exemption are favourably considered where the name of the company substantially discloses the names of the directors or, in the case of a large company, the nature of the business, and the directors are British-born subjects who have not changed their names, but each case must depend on the particular circumstances.

WOOLWICH MILITARY HOSPITALS DISPENSERS.

In the House of Commons on October 5, Mr. Crooks asked the Financial Secretary to the War Office whether he is aware that the ration allowance to dispensers in military hospitals in Woolwich has been reduced during the war; that early in the year rations were stopped and 6s. 3d. a week allowed in lieu, although the ration allowance was estimated at 1s. 9d. per day; that these dispensers have only received one war bonus, whereas other Government employees have received several; and whether he will consider the possibility of revising the pay of these men in order to meet the present cost of living?

Mr. Forster replied that this matter is being considered.

A PERSONAL EXPLANATION.

Sir R. Cooper, on November 7, said that on the previous Wednesday, on the Vote of Credit, he made a speech on the German spy system in this country. Subsequently, during his absence from the House, Mr. King used words which carried the intention and interpretation that he had used his privileged position as a member of the House to attack a gentleman outside who was a competitor of his in the chemical-trade. It was only on November 5 that he learnt for the first time that Dr. Markel, the gentleman referred to, had been connected for many years with Brunner, Mond & Co., Ltd.; but so far from that gentleman or that firm being in any way a trade competitor, his private business and interest depended absolutely on the grace and good will of the firm for raw material. He had spoken in absolute good faith, and, as he thought, in the interest of the nation.

Wood, according to the variety, will give 16 to 20 gals. of alcohol per ton.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Profits on Patents.

SIR.—What does it profit a man who sells £1,000*l.* worth of patents at P.A.T.A. prices? I mention £1,000*l.* because the net profit does not pay the wages of a typist or junior assistant. Is it not time the proprietors were asked to contribute something towards the wages of the retailer who markets their goods?

Hereford.

J. J. JACKSON.

Reconstruction Problems.

SIR.—I am greatly interested in your project of considering problems of reconstruction, and am with you all the way. These things must be considered in the public arena first, in order to create the necessary momentum for right and proper action. But there is one primary condition if we are to do any good; it was emphasised by Professor L. P. Jacks in the national sphere of reconstruction problems, who said: "We shall win through if we maintain good temper, good feeling, and good fellowship." And Hartley Withers, in discussing our financial problems, said, "We shall be able to pay for the war if we are able to control our tempers." While Sir Charles Dilke's recent biography incidentally brings home to us the national loss through our statesmen's bad tempers in the years gone by, or, as the "New Statesman" would put it, "Uric acid in the blood of our leaders exacts a high price from the community." Then the primary condition is to place our tempers under lock and key and promptly to lose that key. The men who can govern themselves are the most likely men for governing others. I hope to send you a few suggestions along, knowing that, whether you agree or disagree, you will, at least, give them a fair consideration.

Highgate, N. 6.

HERBERT SKINNER.

About Sanatogen.

SIR.—In the *C. & D.*, October 27, p. 45, you say: "It is nothing less than the duty of British manufacturers of aspirin, formamint, glycin, lysol, metol, sanatogen, and urotropin to employ these avoided names as much as possible." So far as sanatogen and formamint are concerned your statement suggests that other British firms besides ourselves manufacture the preparations. This, we contend, is not so; and as the subject is of general importance, and your readers would doubtless like to hear both sides of it, we trust you will allow us a little space in which to deal with it. For the sake of brevity we shall confine our remarks to sanatogen, but it should be understood that they apply equally to formamint also. It is true that other firms make preparations containing casein and glycerophosphate of sodium; it is equally true that, in the present state of the law, there is nothing to prevent such preparations being labelled sanatogen. But surely the crux of the whole matter is: Are these preparations sanatogen in fact as well as in name? You tacitly assume that they are; you take it for granted that any manufacturer who has a copy of a patent-specification before him is thereby enabled to carry through, with absolute certainty and perfection, any process of synthetic chemistry; and it seems to us that your whole argument rests on this entirely fallacious assumption. Otherwise your exhortation would amount to this: If you are making a preparation containing casein and glycerophosphates it is nothing less than your duty to call it sanatogen. Never mind what defects it has. Never mind if it contains enough sugar to kill a diabetic patient who would thrive on genuine sanatogen. Never mind if it is swarming with micro-organisms because the terms you sell it at won't permit you even to sterilise it properly. Never mind if it is no more sanatogen than a simple mixture of hydrogen gas and oxygen gas is water-vapour. The law permits you to call your stuff sanatogen, so call it sanatogen and you will be a public benefactor. We do not, of course, believe that this is the policy you recommend; the fact remains that you treat the whole question as if it simply depended on the legal right to use the name sanatogen; whereas our contention is that, from every standpoint but the legal one, it depends on whether or not a manufacturer can really make sanatogen. We all know that there are Germans in this country who have acquired the legal right to call themselves Englishmen and

to pass under an English name. Does this legal formality really transform them into Englishmen and give them English characteristics and mentality? It certainly does not; neither does a manufacturer's legal right to label his product sanatogen endow that product with the chemical composition and the therapeutic properties of sanatogen. Had it been otherwise—had sanatogen been one of those simple chemical compounds which other manufacturers could successfully make for themselves—no British investor would have given more than a nominal sum for the opportunity of taking over the business as it stood and continuing to manufacture and advertise the preparation; for it was well known that the name had already been avoided, and that the success of sanatogen under British ownership would therefore depend entirely on the intrinsic, inimitable merits belonging to it as the genuino preparation. Why, then, you may ask, did we announce from the first that we should ultimately re-name the product? Chiefly because there was, and is, no guarantee that the German firm will not be permitted to resume its business here after the war, and we could then say to the public in our advertisements, "Unless you buy Genatosan—the only genuino sanatogen that is British owned and made—you will risk getting the German-owned article." This, we believe, will be the only effective method of making it impossible for German-owned sanatogen ever to be reinstated here. For the public will have genuine sanatogen, as is proved by the fact that so many people continued to buy it while it was still a German product under Government control. Give them the real thing, as we do, and they will never be tempted away from it; but confuse and exasperate them by flooding the market with pseudo sanatogens, and you will simply be paving the way for the peaceful penetration of the German article after the war.—Yours faithfully,

GENATOSAN, LTD.,
W. G. ASQUITH, General Manager.

[Our correspondent does not apparently dispute the facts that the word "Sanatogen" is public property and that, the sanatogen patent having expired, the methods of making it described in the specification can be employed by anyone. We gather that it is contended that the specification referred to does not disclose completely the method of manufacture, and that Genatosan, Ltd., are the only manufacturers in this country in possession of the whole details of the process. The public is quite right in insisting upon having genuine sanatogen, and the Merchandise Marks Act and the Sale of Food and Drugs Acts were passed as a means of enforcing that right.—ED.]

Warning to Chemists.

SIR.—Let me warn the brotherhood against an Australian in khaki who, after preparing the ground, brings in a scrip and buys various goods, giving an address near by and saying he will call again and get the medicine. He pays for the goods by what looks like a cheque drawn for a larger amount and pockets the difference. Naturally he does not call again, and then the cheque is found to be a form of receipt of the Commonwealth Bank of Australia. At the Strand branch of the bank these lie on the counter for anybody to take and fill in the details, and then play this trick. The man is described as thirty-five to forty years of age, about 5½ feet high, fair, with clean-shaven rounded face and a tanned skin which might be bleached a bit if the police could be helped to lay hands on him. He appears to confine his operations to chemists.

Yours truly,
JOSEPH WILSON.

Trade versus Profession.

SIR.—Mr. Hugo Wolff's reply to me is one which refutes himself with a completeness and finality to which I, with my limited powers, could not hope to attain. It means that, by his own confession, Mr. Hugo Wolff is one of those to whom "pharmaceutical training" is not "congenial as much for its own sake as for the loaves and fishes." Now such man—I am not speaking merely personally—not liking pharmacy for its own sake (but only for the other reason) has no business whatever to be in pharmacy. Surely so much is obvious enough. And if to be "warned off" and "prohibited" is the same thing as to be "kicked out," well—"the punishment fits the crime."—Yours faithfully,

DIogenes Junior. (194/28.)

Subscribers' Symposium.

"Germany's Difficulties Increasing."

"Referring to the article under this title in the *C. & D.*, October 27, p. 45, so far as I am able to form an opinion I believe that German goods will come in nearly as before after the declaration of peace unless legislative action is taken."—H. A. W. (170/33).

Why not Pharmaceutical Labour Candidates?

This is a question put to us by a correspondent (*A. M.*, 175/12), who sends the subjoined extract from the "Daily News":

"Among the Labour Party candidates at the next General Election there are likely to be, I heard, ten or a dozen medical men pledged to support a programme of State medical service. The matter has not been definitely settled, but active negotiations are proceeding between a body of doctors several hundred strong who hold advanced political views, a number of them being members of the Fabian Society, and the Labour Party Executive. The idea is, of course, intimately connected with the establishment of a Ministry of Health, upon the necessity for which everybody seems to be agreed, and medical men employed in the new State service would aim at being what Sir Bertrand Dawson called the other day 'Health leaders of the community.' From what I hear the scheme has such a good backing that it is likely to be made one of the planks of the remodelled Labour Party's new electoral platform."

The late Mr. Forster.

Mr. G. W. Gibson, Hon. Secretary of the Public Pharmacists' Association, writes:

May I add my tribute to the memory of the late Mr. G. Forster, of Dover, whose death you announced last week? As one of the original founders of this Association, and later in the capacity of Hon. Secretary, Mr. Forster rendered yeoman service to pharmacists engaged in the public services. His fearless, outspoken, yet genial personality will long be remembered by his old friends of the Public Pharmacists' Association. It was characteristic of the man that although in late years his interests lay with the retail side of pharmacy, yet he was ever ready to do a good turn for his old Association—on several occasions, notably at the annual concert, coming up to London specially to attend. "Forster of Dover" was always like a "sea-breeze" coming into our midst, and he will be sadly missed.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

H. M. R. (171/35).—The reference-number on the label of the gripe-mixture converts it into a "known, admitted, and approved remedy," which you as a chemist can sell unstamped.

Gentian (175/1).—LIABILITY TO STAMP-DUTY.—The titles "Children's Compound Pectoral Syrup" and "Compound Balsam of Liquorice" do not render the preparations liable to stamp-duty. "Neuralgic Mixture" and "Digestive and Liver Mixture" are dutiable titles.

A. W. (175/38).—VENEREL DISEASE ACT.—The Act was printed in the *C. & D.*, July 16, p. 34, and a series of articles explaining the provisions of the Act were given in the *C. & D.*, July 28, p. 43; September 15, p. 43; September 22, p. 43; and October 20, p. 42.

Keivinsport (172/11).—PRODUCING POISON-ROOK.—If the poison sold is cocaine or opium, the provisions of the Cocaine and Opium Regulation require the register to be shown to the police on request. There is no provision in the Pharmacy Acts for the production of the poison register, but it is desirable to assist the police in endeavours to trace the commission of crimes.

G. H. S. P. (176/29).—The uses of the article you send as described on the label do not include any ailment within the meaning of the Medicine-stamp Act. The title you propose to use does not incur liability, and as the article is not liable to stamp-duty the possessive case may be employed. The article is a toilet-preparation and not a medicine.

Camrac (176/13).—(1) The exemption in the Medicine-stamp Act in regard to "known, admitted, and approved remedies" is confined to chemists or those who have served a regular apprenticeship. (2) If there is no qualified chemist in charge, the exemption is not applicable to the business, and your wholesale house was quite right in the advice given.

W. H. D. H. (176/4).—The label for "Pine Linctus" renders the preparation to which it is affixed liable to medicine-stamp duty, because of the recommendation for "coughs, colds, bronchitis, etc." We are assuming that the mention of "the oils of pine and eucalyptus" is not a complete disclosure of the composition. If the mixture only consists of these two oils, the label would not involve liability to a qualified chemist such as you are.

Irish (91/19).—WHAT IS A CLOSED SHOP?—The official memorandum issued in explanation of the Shops Act states

that "the expression 'closed for the serving of customers' implies that some steps must be taken to prevent customers entering. This would usually be done by closing the shop-door, etc." Unless the door were fastened customers would not be prevented from entering, so that it would not be sufficient to close the door without locking or bolting it.

J. W. (176/56).—Santal capsules can be shown in the window without incurring liability under the Venereal Disease Act. It is, however, a question whether in the case of an extensive window-show with showcards it would not be possible to bring the owner within Section 2 (1) as offering to treat venereal disease. It will be a matter for the Courts to decide, but the exhibition of a few boxes of capsules in the window is in our opinion only an invitation to purchase.

Cortex (152/26).—PROPRIETARY MEDICINE FORMULÆ.—There is risk in circulating the formulæ you refer to, as it has been shown that the recipes given in the book are only rough approximations. The evidence given before the Select Committee on Patent Medicines showed that it is impossible for an analyst to state exactly the composition of a complex organic mixture or pill from an analysis. If you circulate a false statement regarding the composition of a proprietary medicine, you lay yourself open to prosecution.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. H. (166/58).—The use of potato-starch is not prohibited for making an adhesive paste. Spoilt flour may also be used for the purpose if a permit is obtained.

Bats (168/8).—BATS IN CHURCHES.—The best method of exterminating bats in churches is to trap them at night by means of a lantern and a net. No poisoning method is of any use so far as we are aware.

E. G. N. (166/37).—The solid tooth-pastes are made by mixing a tooth-powder with a thin mucilage of tragacanth, pressing the paste into a mould, and drying slowly.

Discipulus (172/20).—We do not undertake analyses, but wholesale houses do this kind of work for a fee.

C. K. (172/19).—So far as we are aware there is no efficient substitute for spirit in dry-shampoo liquids.

G. R. H. (175/8).—WHEAT-DRESSING.—We do not know which particular tar-distillate is used as a wheat-dressing. The makers of the dressing, no doubt as a result of experiment, have been able to decide which part of the tarry residues of gas-making are best for the purpose.

W. F. (148/26).—TONLET-CREAM.—The glycerin in your formula seems to be the agent upon which the efficiency of the toilet-cream depends. We know of nothing that can take the place of the glycerin.

C. E. H. (173/42).—THE MANUFACTURE OF STEARIN AND STEARIC ACID is described in Thorpe's "Dictionary of Applied Chemistry."

T. L. H. (176/55).—BOOKS ON BACTERIOLOGY.—See *C. & D.*, April 21, p. 52.

C. F. P. & Co. (171/54).—COAL-ECONOMISERS.—See *C. & D.*, November 13, 1915, p. 60.

Gentian (175/1).—CALOMEL IS INCOMPATIBLE with organic acids, therefore it is not advisable to administer cream or tartar with calomel as a children's powder.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Nov. 15, 1867.

The Sale of Medicated Wines.

A letter from the Commissioners of Inland Revenue has been placed at our disposal by an esteemed correspondent, and, as it clearly defines the conditions under which preparations of orange-wine may be sold by chemists without a licence, we bring it before our readers:

SIR.—I am directed by the Commissioners of Inland Revenue to acquaint you, in reply to your letter of the 24th ult., that you will not be required to take out a sweets licence to enable you to sell wine of citrate of iron and quinine wine, so long as they are prepared as directed in the *Pharmacopœia*, and are sold to be used as medicines.—I am, Sir, your obedient servant,

ADAM YOUNG, Assistant Secretary.

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WE make a large number of fresh plant tinctures every season, and also import those made from non-indigenous plants. The following tinctures which are generally imported we can now supply made from fresh plants in our own laboratory.

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This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

**Pure Alkali.
58 Degrees.**

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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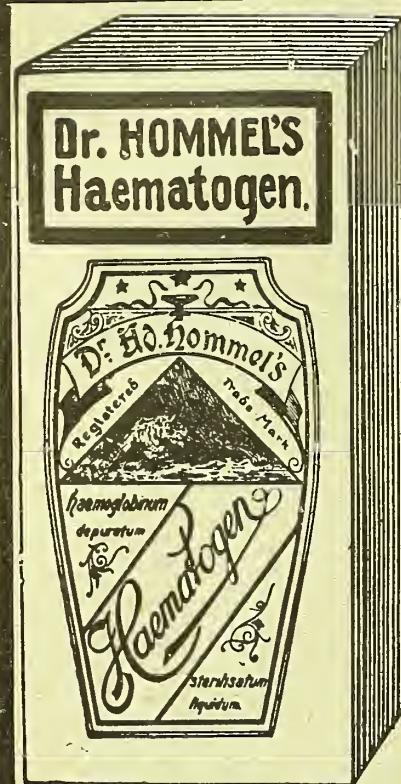
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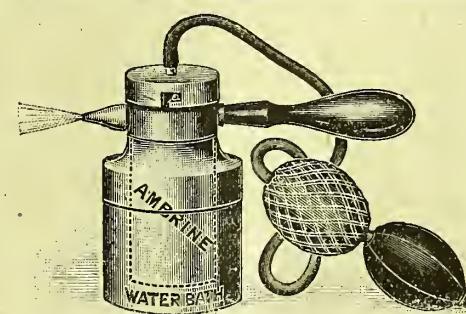
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 *Acet. Ipecac, B.P., 6 lbs. @ 1/11 lb.
 " Scilla, P.B., 6 lbs. @ 6d. lb.
 *Acid. Acet. Glacial, 99%, 6 lbs. @ 3/11 lb.
 " Acetyl-Salicyl, 1 lb. @ 18/- lb.
 " Benz, B.P., 1 lb. @ 19/6 lb.
 " Boric Pulv., 3 cwt. @ 71/- cwt.; 1 cwt. @ 73/6 cwt.; levigd. cwt. or lb. extra.
 " Carbol. Xths., 39/40; 56 lb. drums @ 1/11 lb.; 12 1-lb. Bots. @ 2/3 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/11 gal.; 5 gal. drums @ 2/10 gall.; 1 gall. tins @ 3/2 each.
 Citric, cryst., B.P., '85, 7 lbs. in bags @ 3/6 lb.; powder, 1d. lb. extra.
 Diethylbarbituric, 1 oz. @ 9/- oz.
 " Gallic, pur., B.P., 7 lbs. @ 6/9 lb.; 1 lb. @ 7/- lb.
 Hydrobrom. 6 lbs. @ 1/6 lb.
 Hydrochlor. Coml. cases of 4 2-gall. jars, 40/- each; 20 case lots @ 39/- each.
 " Hydrocyan, P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.
 " Oxalic Cryst., 1 cwt. @ 1/11½ lb.; 14 lbs. @ 2/1 lb.
 " Phosph. Dil. B.P., 6 lbs. @ 6d. lb.
 " Salicyl. pulv. 1 lb. @ 8/6 lb.
 Sulphur, Coml. cases, 4 2-gal. jars. @ each; 20 cases @ each.
 " Sulph. Aromat., B.P., 5 lbs. @ 4/8 lb.
 " Tannic, B.P., 1 lb. @ 8/- lb.
 Tart. cryst. or pulv., B.P., 1885, 7 lbs. @ 3/2 lb.; parv. 1d. lb. extra.
 Adeps Benz., B.P., 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7 lb.
 Eruca, Eris Pulv., 14 lbs. @ 2/6 lb.
 Aloes Barb., English-ground, 28 lbs. @ 125/- cwt.; 7 lbs. @ 1/3 lb.
 Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/7 lb.
 Aloin, B.P., 1 lb. @ 5/6 lb.
 Ammon. Benz., 1 lb. @ 25/- lb.
 Ammon. Brom., P.B., 7 lbs. @ 6/- lb.
 Ammon. Carb. lump, 3 cwt. @ 7½ lb.; 28 lbs. @ 8½ lb.; 7 lbs. @ 9d. lb.; powder, 1d. lb. extra.
 Ammon. Chlor., 99% pulv., 1 cwt. @ 66/- cwt.; 7 lbs. @ 8d. lb.; Batteries, 6/- cwt. extra.
 Amyli Pulv., 10 cwt. @ cwt.; 2½ cwt. @ cwt.; 1 cwt. @ cwt.
 Aniseed, English ground, 1 cwt. @ cwt.; 7 lbs. @ 1/10 lb.
 Antim. Nig. Pulv., 7 lbs. @ 11d. lb.
 Antim. Tart. Pulv., 7 lbs. @ 4/- lb.
 Apiol, 1 lb. @ 27/6 lb.
 " Aqua Anethi Conc. 1-40, 1 lb. @ 3/8 lb.
 " Anisi Conc. 1-40, 1 lb. @ 3/8 lb.
 " Aurant. Conc. 1-40, 1 lb. @ 6/11 lb.
 " Aurant. Trip., 6 lbs. @ 10d. lb.; 53 lbs. for 35/-
 " Cinnam. Conc. 1-40, 1 lb. @ 4/1 lb.
 " Laurocerasi, 6 lbs. @ 9d. lb.
 " Menth. Pip. Conc., 1-40, 1 lb. @ 3/9 lb.
 " Rosa Conc. 1/40, 1 lb. @ 7/9 lb.
 " Rosa Trip., 53 lbs. for 37/-; 6 lbs. @ 10d. lb.
 " Samb. Cone., 1-40, 1 lb. @ 6/11 lb.
 " Samb. Trip., 6 lbs. @ 10d. lb.
 Araroba, fine powder, 7 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.

Argent. Nit., 6's to oz., 25 oz. @ 3/1 oz.; 1 oz. @ 3/2 oz.
 Argent. Nit., Cryst., 25 oz. @ 3/- oz.; 8 oz. @ 3/1 oz.
 Arsenic, Alb. Pulv., 2 cwt. @ 130/- cwt.; 7 lbs. @ 1/3 lb.
 Atropinæ Sulph., P.B., 1 oz. @ 135/- oz.
 Auri Chlor., 6 doz. 15 gr. tubes @ 27/3 doz.; 1 doz. 15 gr. tubes @ 27/6 doz.
 *Bals. Copaiæ, pure, 44 lbs. @ 5/6 lb.; 9 lbs. @ 5/9 lb.; 1 lb. @ 5/11.
 " Peruv., P.B., 1 lb. @ 21/6 lb.
 " Sulphur, 7 lbs. @ 1/6 lb.
 " Tolut. B.P., 50 lb. @ 3/4 lb.; 1 lb. @ 3/10 lb.
 Bismuth, P.B., Carb., 3 lbs. @ 14/- lb.; 1 lb. @ 14/6 lb.; subnit., 3 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
 " Salicyl., 1 lb. @ 19/- lb.
 Boracic Mixture, 1 cwt. @ 95/- cwt.
 Borax, 1 cwt. @ 44/6; powder 1/- extra.
 Butyl-Chloral Hydras., P.B., 1 lb. @ 1 lb.
 Caffeine, P.B., 1 lb. @ 54/- lb.
 Caffeina Cit., B.P., 1 lb. @ 37/- lb.
 Calamina, powder, fine pink, 5 cwt. @ 32/- cwt.; 1 cwt. @ 35/- cwt.; 7 lbs. @ 4½ d. lb.
 Calamine, B.P., 1885, 7 lbs. @ 1/3 lb.
 Calcii Carb. Præcip., 5 cwt. @ 24/6 cwt.; 1 cwt. @ 28/- cwt.; 28 lbs. @ 32/6 cwt.
 " Hydras., P.B., 1 cwt. @ 32/- cwt.; 7 lbs. @ 5½ d. lb.
 " Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
 " Iodid., 1 lb. @ 21/6 lb.
 Camphor, English Flowers, "not artificial," 5 lbs. @ 3/11 lb.; ½ oz. or ¼ oz. 7 lbs. @ 4/9 lb.; good white, about 95% as imported, 140 lbs. @ 3/5 lb.; 28 lbs. @ 3/8 lb.
 Capsicaine, soluble, 1 lb. @ 9/6 lb.
 Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 30/- cwt.; 28 lbs. @ 3½ d. lb.
 Cardamoms, 28 lbs. @ 2/6 lb.; 7 lbs. @ 3/- lb.
 Carmine, Finest, 1 lb. @ 36/- lb.; No. 2, 1 lb. @ lb.
 Ceri Alba, B.P., White Moons, 28 lbs. @ 2/9 lb.; 4 lbs. @ 1½ lb.; Flav. 11b. Blocks, 28 lbs. @ 2/5 lb.; 4 lbs. @ 2/6 lb.; 1 oz., ½ oz. tabs, 7 lbs. @ 2/7 lb.
 Cerri Oxalis, 1 lb. @ 6/6 lb.
 Cetaceum, No. 1, fine white, 64 lbs. @ 1/- lb.; 7 lbs. @ 2/1 lb.; powder, 7 lbs. @ 1/6 lb.
 Chloral Hydras Cryst., B.P., 7 lbs. @ 11/3 lb.; 1 lb. @ 12/- lb.
 Chlorodyne, 5 lbs. @ 3/- lb.
 *Chloroform, pure, B.P., 12 8-lbs. @ 3/10 lb.; 8 lbs. @ 4/- lb.; 6 1-lb. bots. @ 4/4 lb.
 Cocaine Hydrochlor., 1 oz. @ 42/-.
 Codeina, 1 oz. @ 27/6 oz.; Phosph., 1 oz. @ 25/- oz.; Hydrochlor. or Sulph., 1 oz. @ 25/- oz.
 Colocynth, Apple, English ground, 1 cwt. @ 1/8 lb.; 28 lbs. @ 1/9 lb.; 7 lbs. @ 1/10 lb.
 Composition Powder (Coffin's), 1 cwt. @ 75/- cwt.; 7 lbs. @ 10d. lb.
 Conf. Sennæ, P.B., 14 lbs. @ 1/5 lb.; 7 lbs. @ 1/6 lb.
 Cort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
 " Cinchon. Rub. (Quill), 7 lbs. @ 1/7 lb.
 " Ulmi Fulva, Pulv., 1 cwt. @ 1/- lb.; 7 lbs. @ 1/2 lb.
 Cream of Tartar, 98% powder, 1 cwt. @ cwt.; 7 lbs. @ 3/4 lb.
 Creasote Beechwood, P.B., 7 lbs. @ 17/- lb.

Creta c. Camph., 7 lbs. @ 1/1 lb.
 " Gall. Pulv., in sacks, 10 cwt. @ 12/- cwt.; 1 cwt. @ 13/- cwt.; 14 lbs. @ 1½ d. lb.
 " Präparata, 7 lbs. in box @ 1/3 each.
 Cubeba, English Ground, 28 lbs. @ 3/8 lb.; 7 lbs. @ 3/10 lb.
 Dec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/1 lb.; Sincrocero, 6 lbs. @ 1¼ lb.
 " Cinchona (Rubra) Conc., 1-7, 6 lbs. @ 2/3 lb.
 " Senegæ Conc., 6 lbs. @ 2/11 lb.
 Emp. Spread, 12 yards × 16 ins. adhesive, 6/-; Bellad., B.P.C., Green @ 28/6; Cerat. Saponis @ 12/4; Picis Co. @ 12/4; Plumbi @ 10/-; Resina @ 7/6; Roboran @ 11/6; Saponis, B.P., @ 10/-
 Picis, P.B., 7 lbs. @ 1/7 lb.
 " Plumbi, P.B., 7 lbs. @ 1/7 lb.
 " Resina, P.B., 7 lbs. @ 1/7 lb.
 " Roboran, 7 lbs. @ 1/7 lb.
 Emulsio Ol. Morrhua, 5 lbs. @ 1/6 lb.
 Eserine Sulph., in 15-grain tubes, 8/9 each.
 Ess. Bergam. (Oil), 12 lbs. @ 22/6 lb.; 1 lb. @ 2/3 lb.; not guaranteed absolutely pure.
 Ess. Limonis (oil) original coppers, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
 *Ess. Moschi (not artificial), 5 lbs. @ 14/6 lb.; 1 lb. @ 15/- lb.
 *Ess. Pear (artificial), Jargonne, 5 lbs. @ 3/9 lb.; Bergamot, 4/3 lb.
 *Ess. Pineapple, 5 lbs. @ 4/- lb.
 " Raspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
 " Vanilla Beans, 5 lbs. @ 5/- lb.; 1 lb. @ 5/3 lb.
 Ext. Belladonnae Liq., B.P., 5 lbs. @ 19/- lb.; 1 lb. @ 19/6 lb.; solid, 7 lbs. @ 11/- lb.
 Ext. Cannab. Ind., Alc., B.P., 1 lb. @ 80/- lb.
 Ext. Cascara Sag. Liq., B.P., 1 cwt. @ 2/3 lb.; 10 lbs. @ 2/5 lb.
 Ext. Ergot. Liq., B.P., 5 lbs. @ 4/8 lb.; 1 lb. @ 5/1 lb.; Solid, P.B., 4 lbs. @ 20/- lb.; 1 lb. @ 21/- lb.
 Ext. Gent., P.B., solid, 1 cwt. @ 2/5 lb.; 7 lbs. @ 2/8 lb.
 *Ext. Glycyrrh. Liq., B.P., 6 lbs. @ 3/2 lb.
 *Ext. Hamamelis Liq., B.P., 5 lbs. @ 4/1 lb.
 Ext. Hyoscyam., Solid, B.P., 3 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
 *Ext. Ipecac. Liq., P.B., 5 lbs. @ 18/6 lb.; 1 lb. @ 19/- lb.
 Ext. Malti c. Ol. Jecoris, 10 lbs. @ 1/- lb.
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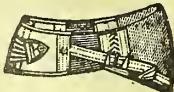
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IN GLASS TUBES — PRICES ON APPLICATION

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Surgical and Athletic Appliance Manufacturers,
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SURGICAL ELASTIC HOISIERY, TRUSSES, SUSPENDERS, BRACES,
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made in Fleecy, Felt, and Chamois, etc.



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and COVERS, ELASTIC WEB BANDAGES, all lengths, widths and qualities.

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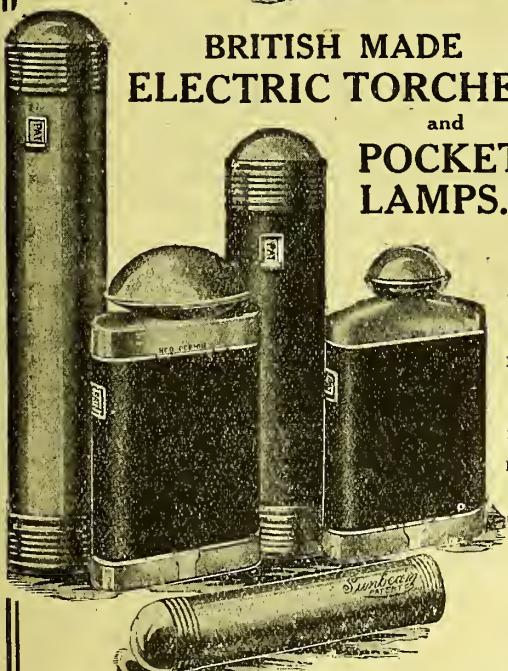
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Our celebrated "Volex" Refills and Batteries are made in all the standard sizes. They have a pronounced superiority over other makes and give maximum results.



Highly Recommended for Home or Export.

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Our British Made Torches and Pocket Lamps are designed on practical principles. They are handsome, effective, and at reasonable prices.

New Season's List on request.

REFILLS ARE VALUABLE !
INSURE THEIR MAXIMUM LIFE BY USING THE
MAXIVEE SHIELD

10d. per doz. net.
Retail at 1½d. each.

A Sample Gross, with a supply of Descriptive Leaflets, will be sent post free for 10/-

Ward & Goldstone
SALFORD MANCHESTER

ZEAL'S REGISTERED

Clinical Thermometer

The "REPELLO"

Requires no shaking down.

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A 30-Second Pushed back
in an instant.

Good Selling Lines for Chemists

Showing flattened bulb at end.



NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical Thermometer on the Market.

IN FOCUS.



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The square mark engraved on lens front locates the Mercury column immediately.

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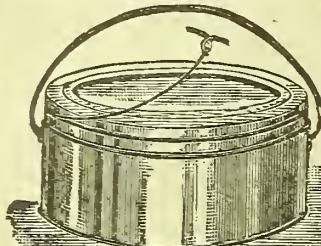
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ALL PHOTOGRAPHIC CHEMICALS in
TABLETS, POWDER or SOLUTION.

New price list on application.
Special terms for contracts.

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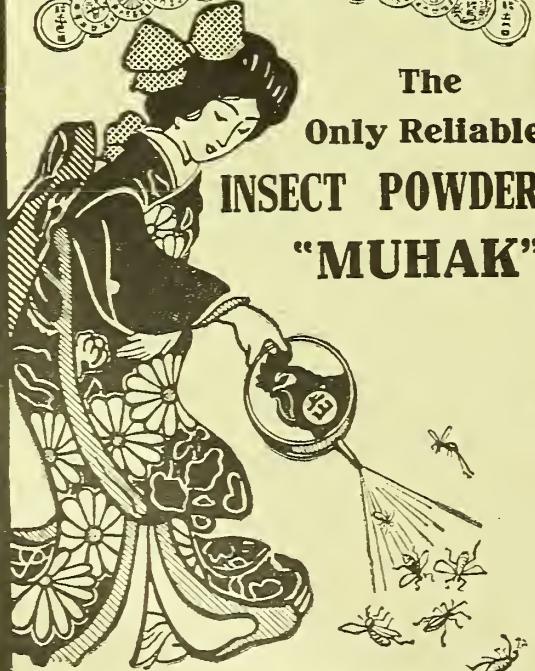
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A simple wash for growing plants.

Manufactured by **S. BOWLEY & SON**
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AWARDED THE HIGHEST PRIZE BY THE EMPEROR

The
Only Reliable
INSECT POWDER
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Retail Prices:
2/- Per Single Tube
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LEAVE YOU A
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75% and 50%
RESPECTIVELY.

LIQUID VIRUS
for large applica-
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SHOWCARDS—
Dummy Boxes, Clockwork
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Through your Wholesale House, or direct from
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Advance in prices as and from November 1, 1917.
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Advertised Price. Size.	Minimum Retail Price.	Minimum Wholesale Price per Doz.
11½d.	11½d.	9/6
1/3	1 3	12/6
3 -	2 11	30/-
5/-	4 9	47/6
12/-	11/6	121/6

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"MOUNTAIN FLAX" (Linum Catharticum) PILLS.		
11½d.	11½d.	9/6
1/3	1 3	12 6
3/-	2/11	30/-

Kay's THROAT LOZENGES		
11½d.	11½d.	9 6
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Less cash discount of 5% on £5 lots.

By Royal Warrant of Appointment
to H.M. The King.



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Only
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ESTABLISHED 1840.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

LARGEST SALE IN THE WORLD.



DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep. Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

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Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

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For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

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For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving. Prevents Milk Fever, and cures Bad Cleansing.

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The Ewe Drench for Ewes, 3/6 per doz.

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Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

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A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

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Price £1 4s., £2 4s., £5, and £10 10s. : Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only: or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM

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Lowest Competitive Trade Rates in New Catalogue.

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TORCHES 5" to 8½" in great variety.

All sizes REFILLS 4 months' guarantee.

Good range LADIES' POCKET LAMPS (Nickel & leather).

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THAT modern properly fitted gas apparatus is perfectly hygienic in construction and working is one of the gas industry's proudest boasts. Repeated and stringent independent scientific investigations have convinced the medical profession that this claim is justified, and it is important that pharmacists as a body should also satisfy themselves as to the facts. Readers are accordingly invited to write for free copies of analyses, reports of tests, etc., drawn up by unimpeachable authorities, to—

Oak Display Stand, suitable for window or counter, with 2 glass shelves
 $30'' \times 9''$... **32/6**

Also in Solid Brass **42/6**
 LEAFLET ON REQUEST.

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DR. CASSELL'S TABLETS

This popular remedy is in great demand. Wholesale Houses can now supply promptly.

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Write for Window-Show Terms.

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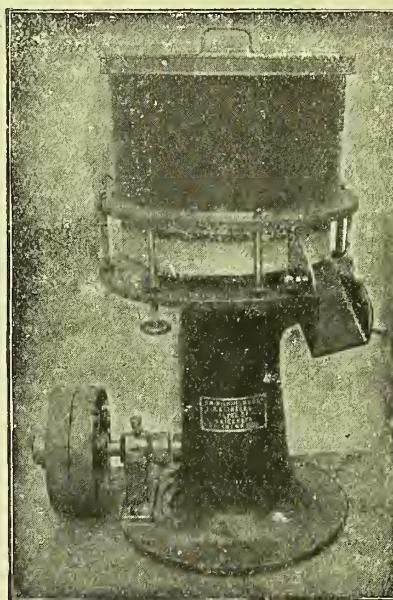
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Great improvements have recently been made in these machines, by which the output has been largely increased.

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GELATINE CAPSULE MACHINES for Hand or Power, for producing both types of Capsules filled with either liquid, paste or powder.



The famous "SPEEDY"
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GELATINE
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EMULSIFIERS and all kinds of PHARMACEUTICAL MACHINERY.

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ORGANIC & SYNTHETIC PRODUCTS,
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PLANTS FOR NITRIC, SULPHURIC &
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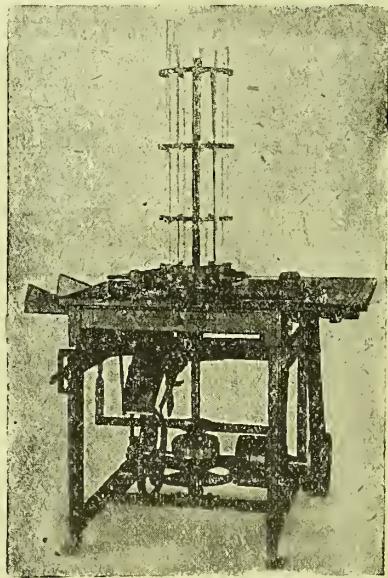
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Complete Plant for Making Bandages.
CLOTH ROLLING & MEASURING MACHINE.
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BANDAGE
CUTTING
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CUTS
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66
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BANDAGES
PER
MINUTE

Prices and Particulars on application to Patentees and Manufacturers
THOMSON-KNOX COMPANY 8-12 Maxwell Street,
GLASGOW.

AIR CUSHIONS.



Fig. 1194.

**BRITISH
MAKE.**



Fig. 1354.

Fig. 1194.—The "EMPIRE," red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	6 6	7 0	8 0	8 6	10 0	11 6	12 6

Fig. 1354.—Air Cushion, sateen covered, reeded ... Sizes

Each	4 3	4 9	6 0
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18×14 in.

Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case, with clasp each 4 6

" " " " super quality " 6 0

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Trusses, Splints, Water and Air Beds, Water and Air Cushions, Waterproof Sheetings, and every description of Rubber and Vulcanite Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

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THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in RED INK, are upon each box thus:

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none are genuine.
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Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

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VITAMIN AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopoeia.
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The liquid hair remover



Dinkie
The Deodorant

The intelligent depilatory. Simple, safe and effective. Pleasant and harmless. Invaluable during the décolleté vogue. Daintily packed.

Ask your wholesaler.

SATISFACTION GUARANTEED OR MONEY BACK.

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and min. Retail price

Trade 30/- per doz.

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min. Retail price

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An attractive line that enjoys good sales. A greaseless Cream, that takes the odour out of perspiration. Daintily packed in opal jars.

Both articles largely advertised.

5% cash with order.
Carriage paid on 1x lots.
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PLASTERS

A REMEDY OF 60 YEARS' STANDING.

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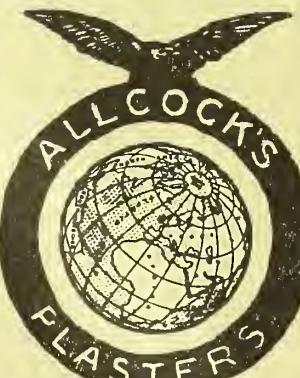
Allcock's Corn and
Bunion Plasters

Brandreth's Pills

*The
Three
Reliables.*

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"Sold all round the World."

"RECORD" Hypodermic Syringes

Notice to the Trade.

Any "Record" Syringes required before April 1, 1918, should be ordered immediately.

No Repairs for next two months.

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FIRST AID OUTFITS.

Quick Sales will be experienced by the display of "Fastnet" handsomely-packed Outfits, costing:—

No. 2, 4/6

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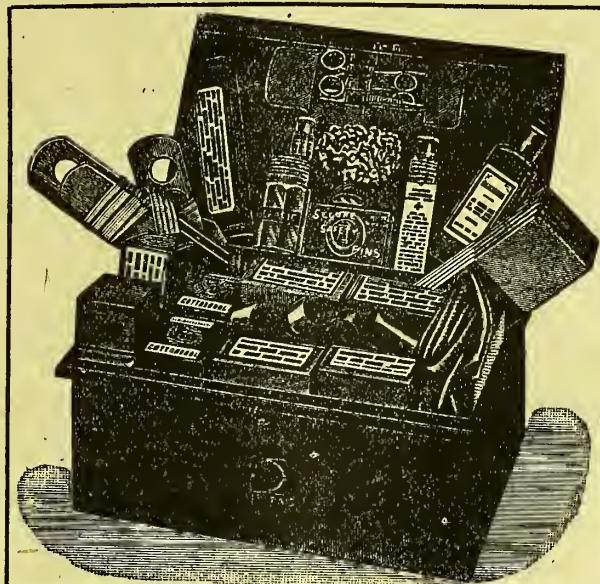
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OINTMENT

is medically recommended and
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CHILBLAINS

IT REMOVES THE STINGING IRRIGATION AT ONCE AND RAPIDLY HEALS ANY BROKEN SKIN

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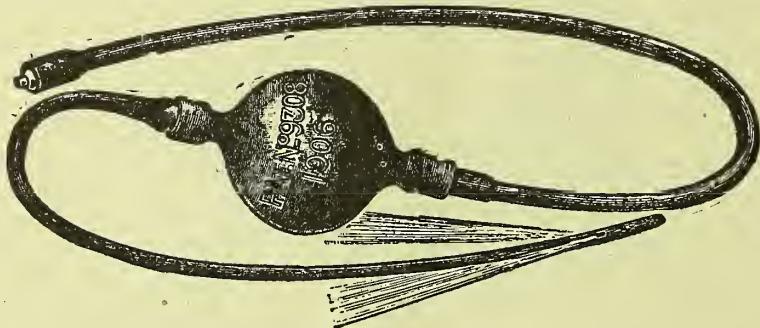
"HYDRION" A Powerful Antiseptic Tablet
 quickly soluble in water: for
 Dressing Skin Wounds, Lacerations, Compound Fractures, Burns, &c.

The formula of an eminent surgeon, obtained after years of scientific research and clinical application. "Sepsis," where directions are faithfully carried out, is unknown. See *LANCET*, Dec. 19, 1914, pp. 1438 et seq.

Write for Pamphlet and Free Sample.

The "NEW CENTURY" Urethral Syringe.

Price 3/6
Less Professional Discount.



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CHIEF POINTS OF VANTAGE :

(1) Simplicity and comparative comfort in use.	(4) Remarkable absence of distress in use.
(2) Ease of complete sterilisation.	(5) Quickness in controlling discharge.
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COMPRESSED INJECTION TABLETS, SPECIALLY MANUFACTURED for use with the "NEW CENTURY" URETHRAL SYRINGE.

Each tablet makes half a pint of non-irritating injection.

Glass Tubes, containing 12 tablets, price 6d. each tube.

"DETERGOL" BRITISH MADE WITH BRITISH MATERIAL.

AN IDEAL ANTISEPTIC DEODORANT DISINFECTANT.

Contains 20% more Cresol than any other similar preparation.

Superior to any German Preparation.

Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "Detergol."

USED BY THE MEDICAL PROFESSION FOR FOURTEEN YEARS.

TABLETS, PILLS, etc., and
 CHEMICAL and MEDICINAL PREPARATIONS of all descriptions
 MANUFACTURED BY

HOUGH, HOSEASON & CO. LTD.

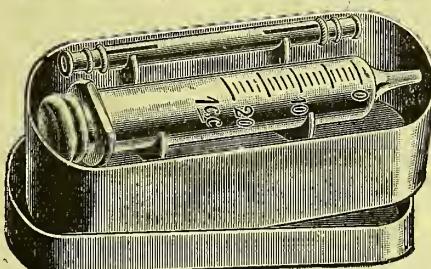
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Contractors to H.M. Government.

MANCHESTER.

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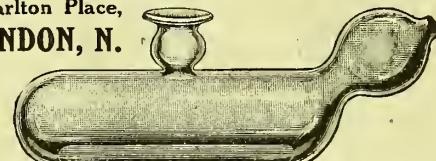
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Samples and prices on application.

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MANUFACTURERS OF
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ABSORBENT GAUZE TISSUE,
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LINT, TOW, &c.
PATENT FOUR-PLY GAUZE.
SANITARY TOWELS.

BRITISH MADE
AND
BRITISH OWNED.
WHOLESALE ONLY. Write for Samples and Prices.

Sound Corks
Sound as the Pyramids.

Trade-marked in this way so that their predominating qualities may "stand out" more than ever. You try them and see! And if you're not satisfied send them back and get your money.

Pyramid Corks - the kind that stand the test. Write to-day, please

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STERILE SURGICAL CATGUT

TRADE MARK

All Varieties and Styles of Packing.

WE MANUFACTURE BY ASEPTIC PROCESS AND UNDER CLOSE BACTERIOLOGICAL CONTROL, RIGHT FROM THE FRESH INTESTINES TO FINISHED STERILE LIGATURE, READY FOR IMMEDIATE USE AT OPERATING TABLE

Inquiries invited.

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EAU DE COLOGNE.

PERFUMES FOR THE POCKET.

COLOGNE RUSSE.



Illustration exact size of bottle.

Qualité Superfine.
2-oz. 16/- per doz.
4 " 27/6 "

PICARD FRÈRES' LATEST SUCCESS.

The Shaving Stick with the creamy lather. Enclosed in a handsome nickelized case. 9/3 per doz.; 108/- per gross.

SAVON POUR LE BAIN.

Small size, about 3½-oz. tablets, 3/3 per doz.
Large size, about 7-oz. tablets, 6 6 "

Special Quotations for Quantities.

SUBJECT TO 2½ PER CENT. DISCOUNT.

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PERFUMES FOR THE POCKET.

All Popular Odours,
8/- per doz.

COLOGNE RUSSE.

A distinctive Cologne of exquisite odour.

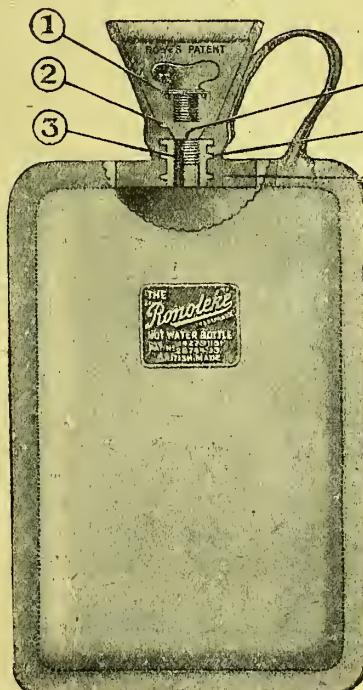
4½-oz. 30/9 per doz.
9 " 61/6 "



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"Ronoleke"
REGD.
HOT WATER BOTTLE



— NOTE THESE POINTS —

- (1) Rounded Flange of Screw-Top engaging
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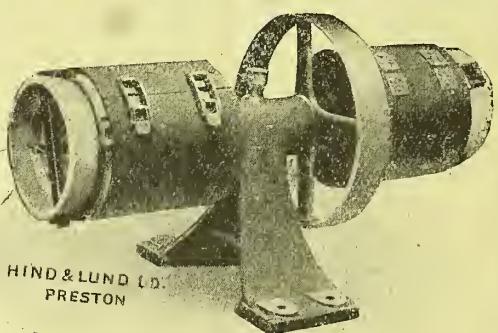
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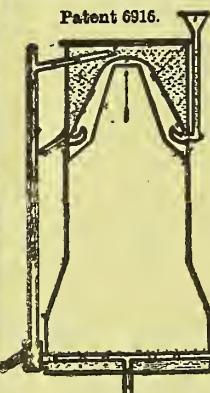
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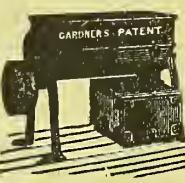
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LONDON, W.—An Assistant; capable Dispenser; whole or part-time; outdoors. Apply W. F. Pasmore, 320 Regent Street, London, W. 1.

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MANCHESTER.—Junior or Improver wanted for good-class Retail and Dispensing business. Apply, with full particulars, Edwards, Pharmaceutical Chemist, Fallowfield.

NANTWICH.—Unqualified Assistant required for modern Light Retail and a little Dispensing; hours 8.30 to 7.30, Wednesday 1 p.m., Saturday 9 p.m., no Sunday duty; outdoors. Please state usual particulars and salary required, Young, Chemist, Nantwich.

NEAR BIRMINGHAM.—Unqualified Assistant required for busy Retail and Dispensing (N.H.I.) business; permanent position, with progressive salary; applicants must either be discharged from Army or above military age. "B. H." (156/131), Office of this Paper.

NORTH FINCHLEY.—Assistant required (lady or gentleman); unqualified; able to help at Dispensing; outdoors; no Sunday duty. State experience and salary required, Leverett & Frye, Ltd., High Street, North Finchley, N. 12.

NORTON HAMPTON.—Assistant required for Dispensing and good-class Retail; ineligible; must be capable, of good appearance and address, and well recommended; outdoors, but dinner and tea provided except Thursday and Sunday; easy hours; no Sunday duty. State age, salary required, experience, and give references, P. Jeyes & Co., Ltd., 6 Drapery, Northampton.

PLUMSTEAD, S.E. 18.—Required as soon as possible for good middle-class business (outdoors), capable Manager; qualified; also one holding Pharmaceutical and Optical diplomas; permanent. Apply to A. Goldthorpe, M.P.S., 70 Herbert Road, Plumstead, S.E. 18.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

YORKSHIRE.—A qualified Assistant, lady or gentleman, for Dispensing and Retail Counters; outdoors; short hours. Salary required, particulars of experience, to 150/13, Office of this Paper.

ASSISTANT; qualification not necessary, but must be capable, honest, reliable, and good Counter hand; permanency for suitable man. Horton, South Street, Chichester.

CAPABLE Saleswoman required for Perfumery department; must have initiative for introducing Toilet requisites; permanency and good prospects for a suitable applicant. Jones & Higgins, Ltd., 1 to 23 Rye Lane, Peckham, S.E. 15.

DENTIST and Chemist required; splendid opening for the former; good position, corner of four roads; trams and buses pass; good terms in dual capacity, or will let rooms to a Dentist at moderate terms. Apply, in first instance, Brodribb, 344 Mare Street, Hackney.

DISPENSER (female, non-resident) wanted at the Downe Sanatorium, Sutton, Surrey (under the Metropolitan Asylums Board); the person appointed must be a licentiate of the Society of Apothecaries or registered under the Pharmacy Acts (Major or Minor Certificate of the Pharmaceutical Society); those holding only the Assistants' Certificate of the Society of Apothecaries are not eligible; the person appointed will be required to perform certain clerical work for the Medical Superintendent, and a knowledge of typewriting will be an advantage; salary £120 per annum, rising after four years' service, by £7 10s. annually to £180. Applications must be made on forms obtainable from the Clerk, Metropolitan Asylums Board, Embankment, E.C., to whom they must be returned as soon as possible.

ENERGETIC Resident Manager (qualified) required for a first-class Pharmacy; must be a successful Salesman, good disciplinarian, and possess initiative and tact; knowledge of Photography essential; good opportunity for a wide-awake business man; reasonable hours. State experience and salary required, R. H. Tootill, Pharmaceutical Chemist, Altrincham.

EXPERIENCED Assistant; outdoors; short hours; good pay. Apply Mr. Marshall, John Bell & Croydon, 50 Wigmore Street, W.

F. M. RIMMINGTON & SON, LTD., 9 Bridge Street, Bradford, require an Assistant (qualified or unqualified) with good experience in high-class Retail and Dispensing; must be smart Counterman. Apply, stating full particulars and salary required (outdoors).

JUNIOR Assistant, gentleman, ineligible for military service, or lady, in good-class Light Retail and Dispensing business; easy hours, no Sunday or night duty. Applicants should send, in first letter, particulars of age, experience, and salary required to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

JUNIOR Assistant wanted for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace (opposite West Kensington Station), W. 14.

LADY with Minor qualification required in high-class Retail and Dispensing business; good business experience essential. Apply, stating salary and references, to Messrs. Neve & Co., Proprietor Harold E. Skyrne, 12 Wellington Place, Hastings.

LADY Assistant wanted for high-class Dispensing business, for Dispensing and to assist at Counter when necessary; qualified or unqualified. Full particulars to Quibell, The Station Pharmacy, Golders Green, N.W. 4.

LADY or gentleman as General Assistant to Chemist; Paddington; hours 9 to 8. Apply to 156/9, Office of this Paper.

LADY Assistant wanted as Senior, where there are employed; Hall qualification, with some experience of Chemists' business preferred, but not essential; half-holiday weekly, no Sunday duty; outdoors. Shields & Warren, St. Albans.

LADY Junior; outdoors; lady Senior in charge; best-class Dispensing business. Apply, with usual particulars, Ellithorne, 26 Wellington Road, Oxton, Birkenhead.

LEWIS & BURROWS have vacancies for good lady Assistants and Dispensers; outdoors; light hours, no Sunday duty. Apply, with full particulars, to 178/21, Office of this Paper.

MANAGER (qualified) for high-class Chemist's shop in Midlands; good prospects for suitable person. State salary required, without board or lodgings; give previous experience. Apply 150/6, Office of this Paper.

MESSRS. ALLEN & LLOYD, 21 Station Road, Aldershot, require at once, for their Fleet branch, capable Assistant for Dispensing and Counter work; ineligible or over military age. Apply, with full particulars and salary required, to above address.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PART-TIME lady Assistant required immediately, three or four afternoons and evenings weekly, including Thursday; Sundays alternate weeks, 6-8 p.m.; good Dispensing experience. Apply 30 Highbury Park, N.

QUALIFIED Assistant as Dispenser in substantial Dispensing business; Hospital Dispensing part of the time; moderate hours, Sunday duty once in three weeks. State age and salary required, good references required, 135/16, Office of this Paper.

QUALIFIED, lady or gentleman, ineligible, for Counter and Dispensing in good-class business. Full particulars to Longman, Littlehampton.

QUALIFIED Dispenser (Minor) required for West-End Stores. State full particulars, Mr. Mansell, Drug Department, Junior Army and Navy Stores, 15 Regent Street, W.

REQUIRED, unqualified Assistant for mixed country business; outdoors; easy hours, no Sunday duty; no N.H.I. Dispensing; good Counterman necessary. State age, salary, references, etc., W. J. Mousley, Chemist, Redditch.

REYNOLDS & BRANSON, LTD., Leeds, require a qualified lady Pharmacist for Dispensing and Retail department. Apply as above, giving full details of experience, salary required.

SPRAKETTS, Shipping and Retail Chemists, Tramways Centre, Bristol, require a capable, unqualified Assistant; one able to keep Stock and Dress Windows preferred; ineligible or discharged. Enclose photo, salary required, and full particulars.

WANTED, a Manager for branch shop; good Cash trade. Send all particulars in first instance to A. E. Thomas, Dental Surgery, Little Sutton, near Chester.

WANTED, a competent Dispenser, about 22 to 30 years of age, not qualified, for a few weeks at the Garden City, Letchworth; a beautiful country and comfortable Home. Apply to W. Hooper & Co., Letchworth, Herts.

WANTED, an Assistant (discharged Army man not objected to) for high-class Dispensing business; outdoors. Salary and particulars, or personal interview preferred, Golds, 59 Church Road, Norwood, S.E. 19.

WANTED, good all-round Assistant; quick and accurate Dispenser; able to take charge in absence of the principal; good wages; short hours; country; twenty minutes from town. State salary and experience to 158/25, Office of this Paper.

WANTED, qualified lady Assistant for Light Retail and Dispensing. Apply, stating experience, salary required (outdoors), enclosing photo if convenient, to Horniblow & Son, Chemists, 29 Sidbury, Worcester.

WANTED, lady Assistant (outdoors), with experience of Retail, chiefly for Counter and putting up stock. Apply, with usual particulars, to W. Marchant, Chemist and Optician, 209 Barton Street, Gloucester.

WANTED, good all-round Assistant (outdoors) in a high-class Dispensing business, in a N.W. suburb; able to take charge; must be a discharged Army man or ineligible. Apply 159/17, Office of this Paper.

YOUNG lady Dispenser required for Manor Park district; one with Counter experience preferred; must have the Apothecaries' Hall qualification. If convenient, apply personally any morning (except Saturday), Parke's Drug Stores, Ltd., 65 Harrowood Street, N.W. 1.

WHOLESALE.

ASMART man wanted for Warehouse, and also capable of attending to the books if required; must have good references. Full particulars to 158/39, Office of this Paper.

ASSISTANT Stockkeeper (one used to orders preferred); ineligible. Apply Butler Crispe, 82 Clerkenwell Road, E.C.

CHIMIST (Analytical) for an Edinburgh Brewery; permanent situation. Address, with references, and stating salary expected, to No. 286, Keith & Co., Advertising Agents, Edinburgh.

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DRUG PORTER required; ineligible; strong and active; liberal wages and bonus. Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate, E.

DRUGGISTS' SUNDRIES.—Thoroughly competent hand wanted; good wages. Send particulars in confidence to "X. Y. Z." (156/35), Office of this Paper.

LADY Assistant required in Chemical Laboratory in East London; must be well educated, but experience not essential. Reply, stating salary required, 53/40, Office of this Paper.

LEDGER Clark (male or female) required; preferably with knowledge of Drug and Patent Medicine trade. Apply, stating age, experience, and salary required, to Goodall, Backhouse & Co., Leeds.

PILL MAKER wanted. Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

PORTER wanted by Druggist, central London. Write, stating wages, to "H." (158/12), Office of this Paper.

REQUIRED, part-time Travellers to work Chemists in South Coast and Wales in Surgical Sundries. Reply to 178/58, Office of this Paper.

STOCKKEEPER, ineligible, with experience in handling heavy Drugs, Chemicals, etc.; progressive and permanent post for competent man. State commencing wage required and full particulars to "Bellad" (178/8), Office of this Paper.

TRUSS and Hosiery Fitter wanted. Apply 163/5, Office of this Paper.

WANTED for putting up Stock, a man or boy accustomed to Chemist's business, and preferably with some knowledge of Drugs. Apply Mr. Matthews, 9/o Savory & Moore, 143 New Bond Street, W.

WANTED, experienced Tablet Coater. State full particulars as to experience, wage, etc., Wigglesworth, Ltd., Westhoughton, Lancs.

WANTED, one or two competent Counter hands; good experience in the Wholesale Drug Trade necessary; good wages paid. Apply personally, H. C. W., 46 Southwark Street, S.E. 1.

WANTED, experienced Shipping Clerk familiar with foreign incoming and outgoing shipping details; Drug and Chemical experience preferred. Full particulars, salary, etc., to C. D., American Commerce Co., 19 St. Bride Street, London, E.C.

WAREHOUSEMAN required, with experience of packing and despatching fine and heavy Chemicals, Stockkeeping, etc.; good wages, and permanency for suitable men over military age; London district. Particulars to 144/62, Office of this Paper.

WHOLESALE Druggists' Wet Counter Assistant, with knowledge of simple compounding, required in Laboratory of Food Specialists. Reply, giving particulars of past experience and salary expected, to 178/23, Office of this Paper.

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ADVERTISER, 40, qualified, requires early appointment; permanency; "Locum"; exceptional experience; any locality. Apply 158/6, Office of this Paper.

AS Locum; permanency; reasonable terms. "Chemist," Sunny-side, Seaside, Combe Martin, N. Devon.

AS Branch Manager or other capacity; over military age; qualified; active and experienced. Chemist, 77 Monsall Street, Basford, Nottingham.

ASSISTANT, unqualified, ineligible, requires permanency; good experience; good references. Apply 156/14, Office of this Paper.

ASSISTANT; unqualified, studying for examination; whole or part-time situation; 16 years' American and Colonial experience. Tuga, 9 Kirkman Place, Tottenham Court Road.

ASSISTANT, unqualified, 20, desires situation in Cardiff or district. Apply 149/4, Office of this Paper.

ASSISTANT, discharged, 28, shortly disengaged, requires engagement; London preferred; reliable. "Belgian" (154/200), Office of this Paper.

BACTERIOLOGY.—Lady Pharmacist, good experience Bacteriology and Pharmacy, seeks post; excellent references. Apply 156/25, Office of this Paper.

BRIGHTON OR NEIGHBOURHOOD.—Qualified Chemist requires situation as Assistant Dispenser or Manager with qualified man, and where no women or girls are employed in the shop, or would take charge temporarily for another Chemist called up. State salary offered, hours, etc. Address "B. O. E." (148/37), Office of this Paper.

DISENGAGED November 12th, Assistant or Locum; thoroughly competent, reliable, experienced Dispenser, Prescriber, etc.; terms moderate; town or country. Apply "B. D." (158/26), Office of this Paper.

DISPENSER (Hall), lady, eighteen months with Chemist, seeks post. Apply "Hampstead" (149/3), Office of this Paper.

DISPENSER (lady) desires post; Bristol preferred; three years' experience Doctor and Chemist. Apply 154/10, Office of this Paper.

DISPENSER (woman) desires post evening; Doctor, Chemist, or Institution; Richmond or West of London. D. M. H., 31 Pope's Grove, Strawberry Hill, Middlesex.

DISPENSER, 30 years' experience, free for Hospital, Druggists, or Doctors; sole charge; locum or permanent; £3. "Medicus," 19 Rockmount Road, S.E. 19.

DISPENSER, lady, qualified, 3 years' experience, wants part-time Dispensing or Bookkeeping on Thursdays or Sundays, or on both days; good references. K. L., 24 St. Michael's Road, Stockwell, S.W. 9.

EASTERN Counties Chemist, whose business has declined since the war, desires Managership or Locum work in a good business; skilled Dispenser, with first-class and all-round experience; active and accurate. Apply 159/5, Office of this Paper.

EDUCATED man, ineligible, Elementary Chemistry, desires post with Chemist, Shop, or Works. Davis, The Old Vicarage, Teynham, Kent.

EXPERIENCED, unqualified Assistant; exempt; accustomed to managing or otherwise; London or suburbs only. Apply J. H., 10 Addison Road, Wanstead, London; E. 11.

LADY Dispenser, some experience, seeks post. Apply "B." (156/10), Office of this Paper.

LADY Dispenser, Hall qualification, desires post with Doctor or Institution; London preferred. Miss Hatch, 23 Cambridge Street, Norwich.

LADY, qualified Apothecaries' Hall, well recommended in Dispensing, requires experience in good-class Pharmacy; country town or seaside not objected to. "R." e/o Miss Wyllie, 43 Bark Place, Bayswater, W.

LADY Dispenser, Hall qualification, desires post with Doctor or Chemist. Miss Learmount, 128 Pinner Road, Watford, Herts.

LADY Dispenser (Hall) desires post with Doctor or Institution; four years' Dispensing and Surgery experience; excellent references; London or near preferred. Apply 154/5, Office of this Paper.

LADY Dispenser, all qualifications, desires post with a Doctor; in or near London preferred. Apply 152/33, Office of this Paper.

LADY Dispenser, part Hall qualified, desires post in London. Apply 150/15, Office of this Paper.

LADY Dispenser (Hall) desires post with Doctor; preferably S.W. district. Apply 149/8, Office of this Paper.

LADY Dispenser (Hall qualification), some experience, seeks engagement. Apply 150/5, Office of this Paper.

LADY Dispenser (Hall qualifications) requires post; Hospital or Doctor. L. Webster, Weedon, Northants.

LADY Dispenser (part Hall) desires post. Margeran, 229 Fordwyls Road, Cricklewood, N.W. 2.

LADY Dispenser, part Hall qualified (Chemistry and Practical), desires post in London or Bucks. Lukin, Harefield Lodge, Romsey, Hampshire.

LADY Dispenser, Hall qualification, two years' high-class West-End experience, desires engagement; Hospital or Public Dispensary preferred. G. Davis, 54 St. George's Road, Brighton.

LADY Dispenser, qualified, Hall, desires post in London; Hospital preferred. K. M. Carden, 19 Princes Street, Gravesend.

LADY Dispenser (Hall) desires post with Doctor in South-West of England; previous experience. Address Miss Young, 2 Shakespeare Avenue, Bath.

LADY Dispenser (Hall); experienced, seeks responsible post with Doctor or Institution; North London or West-End preferred. Hickox, 72 Wray Crescent, N. 4.

LADY Dispenser, Hall experience, desires re-engagement in London; Hospital, Doctor, or Chemist. Apply 158/13, Office of this Paper.

LADY Assistant; unqualified; nine years' experience in good-class Chemist; good Saleswoman, expert Photographer; out-door; disengaged; London, South, S.W. Apply 158/21, Office of this Paper.

LADY desires post or branch management; good Retail experience; unqualified; Manchester district. Apply 158/28, Office of this Paper.

LADY Dispenser, qualified, two years' experience, desires post; now disengaged. J. Ross, 111 Tufto Road, Wood Green, N. 22.

LOCUM; not Dispensing; pushing Counterman; experienced Prescriber; abstainer; unregistered. "Elderly;" Mr. Wells, Chemist, Finsbury.

LOCUM or Permanent; disengaged next week. "Zingl," c/o Rex Blanchford, Pharmacist, Wimbledon.

MANAGER or Managing Assistant; 38; thoroughly experienced in all branches; married; permanency preferred in good-class business; £3; exempt. Address "Drugs" (150/11), Office of this Paper.

MANAGER or Senior, qualified, 41, married, good all-round experience, disengaged. "D." (157/3), Office of this Paper.

MANAGER or Senior, qualified, C3, in good-class business; Bristol or near preferred; good references. Apply 156/12, Office of this Paper.

MANAGER, qualified, C3, experienced, reliable, desires good post London; with or without view succession. Apply 156/30, Office of this Paper.

MANAGER or Senior, qualified, married, 27½, ineligible, disengaged in about five weeks; with or without view to succession; West-End experience; outdoors? Apply 159/18, Office of this Paper.

MANAGER, 35, C3, disengaged, requires berth in West of England; active; splendid records. "J." The Gables, Moulsford, Berks.

MANAGER; qualified; ineligible; married; with or without view to succession; provincial, West-End, and country experience; disengaged; outdoors; locum, Counter, or Dispensing. Apply 159/8, Office of this Paper.

MANAGER or position of trust; unqualified; thoroughly competent and trustworthy; with or without view to purchase; London or surroundings. "A." (158/35), Office of this Paper.

MANAGER; qualified; permanency or locum; experienced; married; references; disengaged. Apply 159/7, Office of this Paper.

MANAGERSHIP; no N.H.I.; 6 ft.; 50. "Major," Otter View, Ottery St. Mary.

PART-TIME; elderly; qualified; free daily 3 to 8; light duties; London only. Apply 154/35, Office of this Paper.

PART-TIME Dispensing and Counter; experience with Doctor and Chemists; W. or S.W. preferred. "D." 1 Halley House, 46 Vauxhall Bridge Road, S.W. 1.

PART-TIME; qualified; 38; Dispensing and Counter; excellent experience and credentials; ineligible; free mornings 9 to 1, evenings 5.30-7.30, all Saturday; disengaged; interview sought. Oliver, 56 Oxberry Avenue, Fulham, S.W. 6.

PART-TIME Dispensing wanted; afternoons (three or more). Apply 158/15, Office of this Paper.

PHARMACIST, JUST OVER MILITARY AGE; past five years in highly successful management of important branch of London company; wide experience of business, organisation, and control; is open to consider engagement with good prospects; minimum salary, £5. Apply "E. S." (154/33), Office of this Paper.

PHARMACIST, 45, good general experience, managing high-class branch over 15 years, invites offers for services; with or without view to succession. Apply 158/40, Office of this Paper.

QUALIFIED; 30; locum or part-time; London district; disengaged November 10. Apply 157/11, Office of this Paper.

QUALIFIED, as Assistant or Manager; age 25; eight years' experience; abstainer; ineligible; Welsh, North Wales preferred, but not essential. Mostyn, Borthyn, Ruthin.

QUALIFIED, C3, 27, experienced, reliable, abstainer, requires berth; wage must be good. "Statim" (154/2), Office of this Paper.

QUALIFIED, with business acumen, requires berth (temporary or otherwise) as Manager, or to relieve owner of N.H.I. and other responsibilities; method, accuracy, and detail. Full particulars on request from "Les" (149/5), Office of this Paper.

QUALIFIED, 31, desires permanency or locum; Liverpool district preferred, but not essential. Apply 148/27, Office of this Paper.

QUALIFIED, exempt, 20 years' London experience, disengaged. "Chemist," 168 B., Elgin Avenue, W. 9.

QUALIFIED lady; high-class Retail Dispensing; good experience. Tayler, 52 Church Street, Egremont, Cheshire.

QUALIFIED lady, with good dispensing experience, desires post in South Wales. H. M. Heswall, St. David's Place, Llandudno.

QUALIFIED Dispenser (experienced) requires work, Doctor or Chemist; evening after six o'clock Sundays, Saturday afternoon; S.W. district. Hogg, 19 Oakley Crescent, Chelsea.

UNQUALIFIED Assistant; Dispensing and N.H.I., single; ineligible. "Calcium" (157/10), Office of this Paper.

UNQUALIFIED, 55, married, active, reliable, useful all-round experience, 10 years away from trade, desires situation with Doctor or Chemist; state salary. Apply 157/28, Office of this Paper.

UNQUALIFIED, C3, 25, all-round experience, disengaged new year. State salary and hours, 158/22, Office of this Paper.

VACANCY wanted for Apprentice Pharmacy; lady; W. or S.W. London; passed Cambridge; sleep out; small salary. Palmer, 18 Sutherland Terrace, London, S.W. 1.

WEDENESDAY relief, from 2 p.m.; qualified; experienced; easy reach Finsbury Park. Apply "Northern" (156/19), Office of this Paper.

YOUNG lady (21) as Chemist's Assistant; knowledge of Counter, also Photography; S. London district preferred. Apply 149/1, Office of this Paper.

£5 WEEKLY.—Pharmacist (Welshman), height 5'8", abstainer, ineligible, married, with good all-round London, seaside, and provincial experience, offers services as Manager; reputed Prescriber, keen Salesman, very neat Dispenser and Window-dresser, knowledge of Optics, Photography, and Agriculture. Apply to "P. A. G." (159/11), Office of this Paper.

WHOLESALE.

ACTIVE Laboratory hand wants position of trust; can manage Toilet Department; exceptional experience; disengaged; highest references. Apply 157/29, Office of this Paper.

GENTLEMAN, exempt, successful Representative, over twenty years' experience first London houses, open for engagement at once; London preferred. Apply 157/34, Office of this Paper.

PERFUMED TOILET AND PACKED GOODS.—Advertiser, over military age, desires berth as Manager; long experience. Please address "E. W." (160/29), Office of this Paper.

PHARMACIST, 38 years of age, last seven years in own business, desires position in Wholesale house or Traveller where expert knowledge of modern methods is required. Apply, stating salary, to "Chemist," 21 Topsfield Parade, Crouch End, N. E.

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Eucalyptus and Menthol	
Etc. Etc.	

CAPSULES. Per 1,000. Boxes of 24.

Santal Oil, 10 m. ...	98/-	... 31/-	doz.
" " 10 drops	72/-	... 23/6	doz.
Copaiba Balsam 10m.	14/-	Boxes of 36	9/- doz.

SACCHARINE TABLETS

$\frac{1}{2}$ gr. 330 in 1.

per lb.	120/-	Cash with Order.
100's	22/6	
200's	44/-	
500's	106/-	
1,000's	210/-	

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Carlton Works,
ASYLUM ROAD, S.E. 15.

Viuda de José Solernou

Disputacion 64, Barcelona, Spain.

AGENCY & REPRESENTATIVE HOUSE. ESTABLISHED IN 1875.
Member of The British Chamber of Commerce at Barcelona.
AGENCIES WANTED FOR GOOD-CLASS CHEMICAL AND PHARMACEUTICAL SPECIALTIES.

SHOP-SOILED TRUSSES.

Manufacturer has special use for these, and will be glad of offers in any quantity of all sizes of Inguinals or Scrotals from Chemists and Sundriesmen; principals only.

Reply promptly to No. 178/3, Office of this Paper.

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(Proprietor: A. Brezet de Beaufort, French Origin)
145 Wool Exchange, COLEMAN STREET, LONDON, E.C. 1.
FINE & HEAVY CHEMICALS.
Paris—Lyons—Montpellier. Laboratory: Hayes, Middlesex.
INQUIRIES INVITED.

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 Years' Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.
Wholesale Prices on application. Sample Box 1/3.
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THE SUGAR SHORTAGE

To our REGULAR CUSTOMERS we can offer a few

SACCHARINE TABLETS

Chemists in congested areas will find that they will do much to relieve the prevailing sugar shortage.

Supplied in bottles of 100 and 200 Tablets only:

100's **26/-** dozen.

200's **51/-** dozen.

N.B.—Each tablet is guaranteed to contain $\frac{1}{2}$ gr. Saccharine .330, and to possess the sweetening power of 1 lump of the finest loaf sugar. Beware of tablets of lower strength that are being offered which will not give satisfaction to your customers.

ARTHUR H. COX & CO. Ltd., Manufacturing Chemists, BRIGHTON.

100,000 SACCHARIN TABLETS

1 gr. 330 in 1d, 17s. per 1000; 5000, 16s. 10d. per 1000;
10,000, 16s. 9d. per 1000. Cash with order.

Special prices to Wholesale Houses for larger quantities.

R. HOULT, Wholesale Druggist, 80 Box, 73 Elford Grove, LEEDS

WAR WANTS EXCHANGE.

For the terms upon which announcements are inserted herein see Supplement for October 20, p. xxxvii.

WANTED.

Adalin tablets or powder (153/37)

FOR DISPOSAL.

Atropine sulph. (144/13) Pot. bichrom. (144/13)
Oil junip. (144/13) Pot. permang. (144/13)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

OIL of Juniper; not quite B.P.; 1 $\frac{1}{2}$ lb. for disposal; best offers, or two 1d. stamps for sample. Foster-McClellan Co., 8 Wells Street, W. 1.

SIX gallon Winchesters fine Frozen Pale Oleic Acid (Tyror's), 8d. per lb. Fechers, Ltd., Ilex Works, Northwold Road, Stoke Newington.

OPTICAL AND PHOTOGRAPHIC.

FIRST-CLASS Trial Case for disposal; mounted lenses and almost new condition. Apply 158/5, Office of this Paper.

MISCELLANEOUS.

OFFERS wanted for Nyve's Preparations. Full list from Savage, 4 Horton Road, Bradford.

OXYGEN Cylinders; 2 x 40 ft. 3 x 20 ft., with covers. What offers? Fitt, Chemist, Norwich.
CACHOU Cutter and formula for cachous without sugar or saccharine. Apply 158/32, Office of this Paper.
I.R. Urinal (male), day or night use, as Sanger's fig. 310; never used. What offers? Anderson, Chemist, Crouch End, N. 8.
WHAT offers for a Stokes N. Tablet Machine; condition as new; can be seen by appointment. Apply 158/1, Office of this Paper.

NYALL Remedies.—28 Eas. Ein. 12 Rab. Poison, 5 Kidney Pills, 6 Blood and Nerve Pills, 5 Tooth Powder, 8 Tooth Paste, 7 Corn Remover, 4 Shaving Powder, 6 Loach Powder, 6 Baby Laxative, 5 Baby Cough Syrup, 6 Fig Syrup, 2 Stone Crop Compound, 1 Rheumatic Remedy, 2 Eczema Lotion, 3 Sore Throat Remedy, 2 Vegetable Prescription, 3 Bath Tablets. Offers to 1 Barons Court Road, West Kensington, W. 14.

WANTED.

TYPHOO Tipps Tea wanted. 1137 Chester Road, Stretford, Manchester.

2 DOZ. Quarts Liebig's Meat and Malt Wine. Offers. McMullan, Chemist, Larne.

THIOCOL Tabs., Sodium Salicylate, Olive Oil, Quinine. McMullan, Chemist, Larne.

STEAM Endemel Pan, Kneading Machine, Rolling Machine, Coating Machine. Horace Watson, Cleethorpes.

CALOX Dentifrice, 1s. 3d. or 3s. State price required to Swire, 55 Edgware Road, W. 2.

WANTED, Brass Mortar and Pestle, or each separately. Apply 142/26, Office of this Paper.

TOILET Rolls required; large or moderate quantities. Timothy White Co., Ltd., Portsmouth.

SACCHARIN, guaranteed 550 strength, wanted Offers to Lloyd, 323 Coventry Road, Birmingham.

SACCHARIN Tablets; bottles of 100, 200, and 500. Send price to "V.", 119 Okehampton Road, Exeter.

WANTED, six of each, 25-, 50-, and 100 gallon empty N.2.0 Cylinders. Apply 178/45, Office of this Paper.

TABLET Machine, second-hand, suitable for 1 $\frac{1}{2}$ tablets, wanted. State make. Apply 176/2, Office of this Paper.

CHEMIST'S Surplus Stock and Drugs purchased for cash. Price and particulars to 145/17, Office of this Paper.

WANTED, Safranin and yellow shade Eosine (pre-war). Quote quantity and price to 162/19, Office of this Paper.

WANTED, Filling Machines for liquids; thin and thick; Powders, Ointments. Give price and full particulars; 157/35, Office of this Paper.

ROBERTS' Filling Machine; any condition; reasonable. Full particulars and price to Jacksons, Mineral Water Engineers, Pownall Square, Liverpool.

OPTICAL Books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Goyer, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED immediately. Fittings and Fixtures for up-to-date Pharmacy; Stock Bottles recess labelled; give description with lowest price cash. Apply 144/24, Office of this Paper.

ALCRESTA TABLETS OF IPECAC



LILLY

Uncoated, Disintegrating

Easy to Take

Cause No Nausea

Permit the Oral Administration of Massive Doses of Ipecac

Each tablet contains the alkaloids of ten grains of Ipecac, U. S. P., combined with a form of hydrated aluminum silicate. The tablet disintegrates readily, but the compound passes through the acid juices of the stomach unchanged and liberates the Ipecac alkaloids in the alkaline secretions of the intestines; thus the nausea and vomiting are avoided.

Prescribed by Both Physicians and Dentists

BY PHYSICIANS—In Amebic Dysentery, Amebic Infections of the Tonsils, Typhoid Fever and various Intestinal Disturbances.

BY DENTISTS—In Pyorrhea as an aid to dental instrumentation in which they are as efficient as hypodermatic injections of emetine.

Supplied in Bottles of 40 and 500 Tablets

LILLY'S DENTAL LOTION

An Emetine Prophylactic Mouth Wash, Useful in Pyorrhea; also prescribed in Tonsillitis, Pharyngitis and Stomatitis.

Effective and Pleasant in Flavor—A Steady Repeater

Supplied in 3-oz. and 1-pint Bottles

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